



Newsline

California Association for Medical Laboratory Technology

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Published by and for CAMLT

DANGER, WILL ROBINSON...DANGER!!

For those of you who remember the TV show “Lost in Space”, these words from the Robot always told Will that something was amiss. On August 12, 2010, CAMLT was notified by Laboratory Field Services that the long awaited Personnel Regulations were available for review and comment. This comment period is very important and all Laboratory Professionals should take the time to read and review these regulations.

On the surface you may not feel that you will be affected by the changes in this document, but read carefully. Comments may be submitted by individuals, as well as Laboratory Organizations and must be received by the Office of Regulations and Hearings by 5 PM on September 27, 2010.

Written comments may be submitted as follows:

1. By mail to the Office of Regulations and Hearings, California Department of Public Health, MS 0507, PO Box 997377, Sacramento, CA 95899-7377 or hand delivered to 1616 Capital Avenue, Sacramento, CA 95814. It is requested but not required that written comments sent by mail or hand delivered be submitted in triplicate; or,
2. By fax transmission: [916]440-5747; or,
3. By email to regulations@cdph.ca.gov. It is requested that email transmission of comments, particularly those with attachments, contain the regulation package identifier “DPH-08-001” in the subject line to facilitate timely identification and review of the comment.

The CAMLT Legislative committee and Board of Directors will be commenting on this legislation on your behalf as a member of CAMLT. It is very important for us to be your voice. In order for CAMLT to do that, we need your input. Please make sure that we have a valid e-mail address for you on file, so we can send you this type of information in a timely manner.

You can find the materials at www.cdph.ca.gov and clicking on the links in the following order: Decisions Pending and Opportunity for Public Participation, Proposed Regulations.

This is probably the most important piece of regulation since SB113. Please heed the “Danger” by participating in this process.

Preserving the Past for the Future



Disneyland October 21 – 24 2010

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Message From the President



Professor Julius Sumner Miller, physicist and graduate of Boston University and a student of Albert Einstein, once said in part “*It is What we do, if we are successful, is to stir interest in the matter at hand, awaken enthusiasm for it, arouse a curiosity, kindle a feeling, fire up the imagination...*” Professor Miller was discussing education but the concepts exemplify the approach we must take to steering CAMLT through the present and into the future.

At annual meetings for the Association too numerous to mention, the topics are always the same; preserving the laboratory professions through membership numbers, education, and legislation. The answers are almost always the same as well; increase member numbers, provide more continuing education and watch dog legislation that affects the laboratory and its people because that legislation affects patient well being. We’ve often had good ideas for achieving these answers but our follow-through is lacking. Not due to false intent or disingenuous planning but rather to lack of time and resources.

It has become increasingly difficult to find active members who are able and willing to give the time it takes to keep a volunteer organization such as CAMLT moving forward. Board of Directors positions are filled at the last minute. In fact, we have no District V Consultant. Chapter leadership is dwindling or stagnant in some cases. Executive office staff is bare boned. Committees are only partially filled. Seems rather daunting on the face of it but CAMLT members are a resilient lot. A reflection of a profession that doesn’t give up until the job is done and the answer is at hand.

The Board of Directors, your board, is a combination of experienced and inexperienced CAMLT officers but discerning who is more practiced during any given board meeting is nearly impossible. There is no sense of giving up, only moving forward. Ideas fly and new approaches to answering persisting questions are on the table but at the end of it all, stirring, awakening, arousing, kindling and lighting fires are necessary components of forward movement.

Moving forward for CAMLT has meant refitting the executive office with a new computer system that will allow us to go green. Going green means great savings in publication and postage costs

as we move to an electronic [Newsline](#) but, more importantly, going green allows us to develop a database that can and will connect us at a moment’s notice with all our members. Our website will continue to serve anyone who accesses it but coming features will include a member access only page.

To go back to stirring, awakening, arousing, kindling and lighting fires, CAMLT will ramp up our focus on students. The resurgence of student day at recent conventions has invigorated everyone who attended those conventions. This year’s offering will be no less stimulating. A new statewide program is moving into place that will help chapters contact students and newly licensed laboratorians in their area in order to bring those folks into the fold of the local chapters and the ranks of active CAMLT members. Everyone of us who is, or has been, active in CAMLT had a chapter mentor or two who stirred our desire to join, awakened our understanding of the value of our profession, aroused our interest in matters affecting us professionally, kindled our inclination to serve, and light the fire under the many who have kept CAMLT in service to its members and all laboratory professionals.

Now back to Professor Miller. Most of you probably don’t remember his contributions to the field of physics at both the University of Sydney and the United States Air Force Academy or his many public television appearances and shows. You might, however, remember him as Professor Wonderful who provided exciting science based introductions to the Mickey Mouse Club. As we join one another at CAMLT’s 71st Annual Meeting and Exhibits at Disneyland’s Paradise Pier Hotel, let us remember his charge; “stir interest in the matter at hand, awaken enthusiasm for it, arouse a curiosity, kindle a feeling, fire up the imagination”. Let us revitalize CAMLT with renewed enthusiasm on the part of those of us already here and with an infusion of the new laboratory professionals into our Association. Remember “*You can’t stay in your corner of the Forest waiting for others to come to you. You have to go to them sometimes*”. - A. A. Milne, Pooh’s Little Instruction Book

Jane
Jane Bruner, President
CAMLT

CAMLT/NEWSLINE

Volume 36, No.1
Jane Bruner, President

Editorial correspondence should be addressed to CAMLT/ *Newsline*, 1895 Mowry Ave., Suite 112, Fremont, CA 94538.

Scientific articles submitted for publication in the CAMLT/ *Newsline* should be approximately 1,000 words in length or about three pages, double spaced, typed materials. Please include references when appropriate. Since the articles are relatively short, the editors do not feel that an abstract is necessary. All articles should be accompanied by a picture of the author.

Articles describing procedures should include materials and methods as well as results. All graphs and charts should be reducible. Abbreviation (except for those in common scientific usage) should be defined and introduced parenthetically when first used in text.

Advertising correspondence should be addressed to 1895 Mowry Avenue, Suite 112, Fremont, CA 94538, (510) 792-4441, FAX (510) 792-3045, e-mail: office@camlt.org.

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CAMLT's EXECUTIVE OFFICE STARS

A couple of years ago the theme of the CAMLT Annual Convention was "Stars of the Laboratory Universe". It was an apt theme and a reminder of the important place laboratory personnel play in the health-care scheme of things. Read on for more on STARS...

Not all CAMLT members and friends may be aware that our Executive Office staff is made up of STARS with special talents, whose work helps immensely in keeping our own little universe in its proper orbit.

STARS Nancy Gutilla and Jeannie Noia manage CAMLT Executive Office functions with great skill and the ease of years of practice. Nancy has been with CAMLT since 1988, Jeannie since 1991. They have seen the Executive Office move from the typewriter and telephone to the computer and the Internet. Under their capable hands seminar details are organized, registrations are acknowledged and recorded, publications are printed and mailed or e-mailed, the bills are paid, dues are collected, and memberships are entered or renewed. As the Annual Convention plans are made each year, the details are kept organized and the Convention Committee's work is enabled. They also keep the CAMLT website updated and process Distance Learning course paperwork. All this by two people!

Helen Sowers is a third STAR. A former educator of laboratory scientists, Helen has been a member of CAMLT since the late 1950s. She has worked for many years with CAMLT's Coordinating Council for Educational Activities. Before a CAMLT seminar can be presented, or a Distance Learning module made available for purchase, the content must be screened for accuracy and cohesion. With her broad-based knowledge of laboratory disciplines, Helen is a whiz at bringing modules into compliance with the requirements of regulatory agencies. CAMLT educational offerings owe a great deal to Helen's tireless work.

To sum it up, our Executive Office Staff is:

C ore of the organization
C aring

A imiable,
A mbitious for CAMLT

M eticulous
M otivators

L ight-hearted
L ab oriented

T enacious
T acklers of Taxing problems

In other words, an
E xcellent
E nergetic
O ffice Staff



Jeannie Noia



Helen Sowers



Nancy Gutilla

Thanks to Nancy, Jeannie and Helen from all CAMLT Members.

INTRODUCING: CAMLT'S BOARD OF DIRECTORS

Your CAMLT Board of Directors would like to introduce themselves and give you a little insight into how this group of people from many places came to the laboratory field.

President:

Dr. Jane Bruner is the first repeat CAMLT President, although we have had a President stay in office for an additional year. Jane served as President in 2000-2001, having moved up through the ranks as Sacramento Chapter President, Convention Chair, Finance Chair, Treasurer, and other positions too numerous to list. Jane was raised in Montana but experienced life in many parts of the USA as a military wife. To help support the family she worked at various places, including, we hear, a bar in Mississippi. She attended Sacramento State, and trained at UC Davis Medical Center. Work in Microbiology led to the developing field of Molecular Biology, including bringing new tests into use for the laboratory. Jane earned a PhD in Microbiology from UC Davis, and is now a Professor at CSU Stanislaus in the Biological Sciences department. Jane also co-teaches the first Clinical Hematology class distributed through video streaming and online methodology to students throughout the state, as many of the current CLS trainees can attest.

President-Elect:

Janet Vogel works as a generalist with emphasis in Blood Banking at Mercy San Juan Hospital in Sacramento. Jan says she was attracted to the laboratory field when she worked as a laboratory assistant in a bioanalyst's laboratory during her college years. Her work in a hospital provided extra benefits for Jan – Roy, her husband-to-be, worked in the Emergency Room in the same hospital. Roy left for a year to study in Taiwan.

Jan traveled to Taiwan to visit him. The trip appears to have gone well for they were married soon after. Roy is a talented photographer, and has been the official photographer for many CAMLT Conventions. Jan has been an active member of the Sacramento Chapter for many years. She has co-chaired and served on committees for several Conventions, and served as District I Consultant. Jan is well-known as a gourmet cook. The current Board members are always happy to serve as tasters for her delicious creations.

Immediate Past President:

Rebecca Rosser is an Education and Development Consultant for Kaiser Permanente Regional Reference Laboratories in Southern California. She has been a CLS for 32 years, beginning in Microbiology, moving to various management positions, and for the last 15 years working as an educator. Becky started her college education as biology major at CSU Northridge. When friends mentioned that they were interested in transferring to San Francisco State, she started doing some research and “discovered” Medical Technology. The appeal of the program for her was an emphasis on real-life skills and not too much Chemistry. She decided to apply, was accepted, and moved to San Francisco to complete her education. The friends? They changed their minds.

Becky and her late husband, Lyle Rosser, were a CAMLT team. Lyle served as CAMLT President in 1990-91. Becky was elected to serve as president in 2003-04 but deferred her term after Lyle's untimely death in a cycling accident. She took office for the 2008-2009 term as President. In addition to her duties as President and Past-President, and a very demanding job, Becky has also organized numerous seminars for CAMLT and been instrumental in the success of recent conventions.

Secretary:

Mary Jeanne Stavish recently (almost) retired after 40 plus years in the Hematology Department of St. Luke's Hospital (CPMC/Sutter). She was attracted to the laboratory field after visiting a laboratory directed by a family friend and being shown cells and organisms under the microscope. For most of her career St. Luke's has been a training hospital, so lots of bench teaching has added an extra dimension to the usual lab work.

Mary Jeanne has served in various San Francisco Chapter positions, as Finance Chair and as State President in 1995-96. The 2009 Convention was her fifth as Co-Chair.

Treasurer:

Rachel Rees did not start out to be a CLS. Her degree from Humboldt State College is in Marine Biology. She worked in fish farming before joining the Peace Corps and traveling to Guatemala. When time came to find a more secure career she became interested in the clinical laboratory field. As a CLS she has worked as a generalist and in Microbiology. She is now pursuing a Doctor of Public Health degree. Her training in Public Health gives her a different perspective on regulatory issues facing laborato-

ries in California. Rachel has been a member of the East Bay Chapter of CAMLT for some time and has served as a delegate to several Conventions. Her “new face” on the Board of Directors is an asset to CAMLT.

District I Consultant:

Jo Ann Sugioka, like Becky Rosser, discovered the career of Medical Technology in a college catalog. She completed a double major in Laboratory Science and Public Health. She did a Public Health Microbiology internship in Santa Barbara and Berkeley, and worked at the Alameda County Public Health Department. She was invited to apply for a staff research position at UC Davis, where she started a virology lab for a research project. Jo Ann then moved to the clinical side, working to bring up new tests in the Reference Lab Section, and now works in the Immunology Department where she does autoimmune testing as well as allergy, HIV and other testing. Jo Ann is a stalwart of the Sacramento Chapter, organizing seminars, recruiting new members, and generally keeping the Chapter members on their toes.

District II Consultant:

Margaret Garris is the resident expert on re-entry as a CLS. Margaret was born in Louisiana, trained and worked there as a Microbiologist, then left to raise her three sons.

After a 20-year hiatus, the family moved to California, the sons were grown, and she was ready to return to the laboratory. She learned that she needed to take the California exam and would probably need lots of study and review classes to prepare for the test. Just to test the waters she took the exam and passed on the first try. Finding a job was difficult so she decided she needed to tailor her resume to her skills and allow the actual chronology to be a bit vague. That plan plus her forthright and engaging personality helped her secure a position. She now works for Siemens in PCR and gene sequencing.

Margaret is giving back to the profession wholeheartedly by being active with the East Bay Chapter of CAMLT, serving as District Consultant and encouraging younger members of the profession to become involved with CAMLT.

District III Consultant:

Tim Vogel is another new face on the Board this year, coming to the District Consultant position from the Tulare-Kings Chapter. Tim initially worked in the insurance field but returned to college to find a career that better suited him. Career testing showed that the laboratory field would

be a good fit. His first position as a CLS was as a generalist. Now concentrating on Chemistry and Coagulation, Tim is the Quality Assurance Coordinator for three hospitals in the Adventist Health Group. Tim is married to a teacher; they have a very active three-year old son.

District IV Consultant:

Alicia Santos works at Cedars-Sinai Medical Center in Los Angeles. She came to her career sort of by accident after being rejected from a Nursing program because she was too short. Nursing’s loss is definitely the laboratory’s gain in this case. Alicia received her B.S. degree in Medical Technology from the University of San Tomas in Manila.

She trained at St Joseph’s Hospital in Syracuse, NY. When she took her first paycheck to the bank she was asked if it was her mother’s paycheck (being height-challenged just doesn’t go away). She worked in Syracuse for five years before moving to Los Angeles. She earned a Master’s Degree in Clinical Science from CSU Dominguez Hills in 1979.

Alicia is a veteran of many CAMLT Conventions, seminars and chapter projects, and is one of the most successful recruiters of new members for CAMLT. Alicia loves antiques and vintage items, especially the history behind the treasures.

District V Consultant:

This position is physically vacant, although filled by an avatar we call DV-DC.

DV-DC has not shared many personal details, but is known to be a CLS with knowledge of all areas of Laboratory Science who is a specialist in computer programming and information technology. Special projects will prevent DV-DC from serving another term for CAMLT, so the Nominations Committee will be searching for a likely candidate for the office for the 2010-2011 year.



Have you checked out the workshops being offered? Abstracts start on page 16.

CAMLT Political Update

August 2010

Public Policy Advocates, LLC

The following is legislation that the CAMLT Legislative Committee has directed PPA to engage in this year.

AB 549 (Furutani) Licensure: clinical laboratory personnel, as amended 8/2/2010 —OPPOSE

According to the sponsor, the City of Hope research hospital, individuals with doctorate degrees in genetics, and related fields, are needed in the laboratories specific to genetic testing related to mostly cancer and transplantation. City of Hope asserts that state regulation erects unnecessary barriers to the licensing and recruitment of such essential personnel. They asked Assembly Member Warren Furutani to introduce AB 549, which yields the state's educational testing accrediting process to unnamed "appropriate" accrediting bodies recognized by the Department of Public Health (DPH).

Under current law, DPH issues licenses to those applicants who have a certain educational background and who have engaged in a certain number of hours of coursework and training in the applicant's specialty. AB 549 would enable any applicant with a doctoral degree from "an appropriate accrediting body recognized by the department." Previous versions of the bill listed such outside agencies as the American Boards of Medical Microbiology, Clinical Chemistry, Bioanalysis, Medical Laboratory Immunology, Forensic Toxicology, Medical Genetics, Academy of Clinical Toxicology, Board of Pathology, Histocompatibility and the Canadian Council of Medical Genetics. The most recently amended version of the bill, however, does not list any specific accrediting entity, only specifying that the appropriate body must be recognized by the U.S. Department of Health and Human Services.

Existing law requires DPH to issue a clinical chemist, clinical microbiologist, clinical toxicologist, clinical molecular biologist or clinical cytogeneticist license to each person who has applied for the license on a specified form who is also the holder of a master of science or doctoral degree in the specialty for which the applicant is seeking a license and who has met other requirements; for example that the graduate education included 30 semester hours of coursework in the applicant's specialty and a training program approved by the Department.

This bill would require DPH to issue a clinical biochemical geneticist license to a person meeting the above requirements in the subspecialty of biochemical genetics. Under this bill, it is considered "sufficient evidence" if the applicant presents a formal letter or written documentation from an accredited training program indicating that the applicant completed the program, and from a clinical laboratory confirming employment experience. The bill would also require each applicant to provide evidence of satisfactory performance on a specified written examination.

As originally written, AB 549 would have weakened significantly the essential licensure standards currently in place in California. The bill contained language which would force DPH to consider sufficient virtually any training program approved by a private, national, non-

governmental accrediting board for cytogeneticists, genetic molecular biologists, biochemical geneticists, chemists, clinical cytogeneticists, clinical genetic molecular biologists, clinical biochemical geneticist, and histocompatibility laboratory directors.

There are no requirements for these boards to meet any regulatory standards other than what they privately develop. By removing the state from the process of evaluating and approving the content of their programs as well as the content of their testing examinations, AB 549 would effectively allow these boards to control the licensure process and thereby who can hold a license in California. To allow individuals to become licensed without meeting current standards, including training standards administered by the state, would not be in the best interest of the profession or the patients.

PPA engaged in many discussions with the sponsors, as well as the author of the bill, to voice CAMLT's opposition. We were advised by the sponsor that it wasn't their goal to dilute the current training standards, but that they only wanted to encourage the state to promulgate regulations in this area. PPA has reiterated that while improving and expediting the licensure process is an acceptable avenue, taking the problem to the Legislature to circumvent the rules is not in the best interest of the public.

The author and sponsor of the bill understand that while CAMLT is willing to solve problems for professional personnel, it will not agree to weaken licensing standards. CAMLT's legislative committee felt that the best solution would be for the City of Hope, the State and other interested parties, including CAMLT, to get some reasonable changes via regulation rather than taking the entire licensing and accrediting process away from the state. As a result of our interactions, the City of Hope agreed to amendments that removed CAMLT's opposition. However, as written, AB 549 remains a placeholder bill for the City of Hope until DPH regulatory changes are enacted.

AB 1963 (Nava) Pesticide poisoning, as amended 8/4/2010—REMOVED OPPOSITION

Sponsored by the Pesticide Action Network of North America, Physicians for Social Responsibility—Los Angeles, and the Health Officers Association of California, AB 1963 is a general reintroduction of AB 1530, a cholinesterase (ChE) testing bill introduced by Assembly Member Sally Lieber in 2007 that attempted to force additional reporting requirements onto laboratories. We worked with Assembly Member Lieber's office in 2007 to produce the following amendments that would have reduced the reporting requirements for laboratories, and thus, move CAMLT into a neutral position on the bill: "A laboratory shall be considered compliant with the requirements of this section if the laboratory requested the purpose of the test and the patient's name and gender from the medical care provider who ordered the test." However, the bill failed to pass out of committee, and the bill died before the amendments were implemented.

This year, PPA was able to work with Assembly Member Nava and his staff on AB 1963 to acquire amendments that would remove the laboratories performing ChE testing from responsibility if they do not possess certain information about the test and patient. The most current version of the bill only requires laboratories to electronically report information in its possession to the California Department of Pesticide Regulation (DPR) on a monthly basis, including:

- 1) The name and birth date of the person tested;
- 2) The name, address, and telephone number of the health care provider or medical supervisor who ordered the analysis;
- 3) The name, address, and telephone number of the analyzing laboratory;
- 4) The accession number of the specimen;
- 5) The date that the sample was collected from the patient and the date the result was reported;
- 6) Contact information for the person tested and his or her employer, if known and readily available

The bill also requires the medical supervisor who ordered the test to note the purpose of the test, and makes him/her responsible for ensuring that the person tested receives a copy of the test results within 14 days of receiving the results.

AB 1963 further states that DPR and OEHHA “shall prepare a report on the...utility of laboratory-based reporting of cholinesterase testing for illness surveillance and prevention” by December 31, 2015. ChE tests are performed on pesticide handlers and in 2005, DPR reported 74 occupational poisoning cases related to ChE.

Because AB 1963 no longer punishes laboratories for not reporting information they never possessed in the first place, requiring only that laboratories report information already in their possession, CAMLT has removed its opposition. The bill will now be heard on the Assembly Floor.

SB 1246 (Negrete McLeod) Naturopathic medicine, as amended 8/2/2010—OPPOSE

Currently, the Naturopathic Doctor Act allows naturopathic doctors to order and perform laboratory examinations such as phlebotomy and clinical laboratory tests. Sponsored by the California Naturopathic Doctors Association, SB 1246 would allow naturopathic doctors to perform CLIA waived laboratory tests, and would further grant them the designation of “laboratory director” for these waived tests only. The bill would also allow naturopathic doctors to supervise their assistants, who, under this bill, would be permitted to perform skin tests, venipuncture and skin puncture (as can medical assistants) after undergoing minimum training as prescribed by the Medical Board of California.

SB 1246 passed out of its policy and fiscal committees unanimously and now faces a floor vote in the Assembly. PPA has met with various legislators and staff, including members of the Governor’s cabinet, to discuss the harmful effects of the bill.

PLEASE BE SURE TO CHECK THE CAMLT WEBSITE FOR BILL UPDATES, LEGISLATOR LISTS, AND COMMITTEE ASSIGNMENTS!

<http://www.camlt.org/leg-bills.html>

ATTENTION: LAB-PAC NEEDS YOUR SUPPORT NOW!

Please donate to the CAMLT Lab-PAC fund. Lab-PAC is a critical means of supporting and electing Legislators to the California Legislature who share a like-minded philosophy with CAMLT and who are open-minded to learning the issues and challenges facing your profession. Encourage the colleagues you work with. Get your chapters and chapter members to contribute. Talk to your vendors.

Get involved! Your voice in the political process is much louder as CAMLT than as an individual. Contribute to the collective resources of CAMLT to grow your political clout. Visit the **Lab-PAC Page** for a donation form. **Your gift in any amount will help your profession. Contribute now!**

**Please mail donations made payable to: LAB-PAC
1895 Mowry Ave., #112, Fremont, CA 94538-1766.
Please write a check to LAB-PAC now!**

**GRASSROOTS:
HAVE YOU MET WITH YOUR LEGISLATORS?**

Legislative issues concerning CAMLT this year have included laboratory personnel, testing, and increased laboratory reporting requirements. There is an urgent need for an involved and expanding CAMLT membership committed to political involvement. **Make it a priority to meet with your Legislators this fall. You know what to say:** what it takes to be a CLS; what you do; why it is important to maintain the integrity of the Laboratory Director when other personnel are doing laboratory tests, even if they are waived; why other allied health providers shouldn’t be Laboratory Directors; the CLS shortage and what it takes to eliminate it. Meet with your legislators in your district, send letters explaining CAMLT’s philosophy, invite legislators and their staff to tour your laboratories, and introduce yourself as a constituent. You will find a current roster of Legislators and the cities they represent on the website. Remember, these interactions are integral components of your grassroots program. For tips, please refer to the **CAMLT Grassroots Guide** on the website.

Don’t delay! Reserve your room at the Paradise Pier Hotel ASAP and send your convention registration form to the Executive Office by October 1st!



**2009-2010
CAMLT BOARD OF DIRECTORS**

- PresidentJane Bruner
- President-ElectJanet A. Vogel
- Immediate Past-PresidentRebecca A. Rosser
- TreasurerRachel Rees
- Secretary.....Mary Jeanne Stavish
- District I ConsultantJoAnn Sugioka
- District II Consultant.....Margaret Garriss
- District III ConsultantL. Tim Vogel
- District IV ConsultantAlicia D. Santos
- District V Consultant.....OPEN

CLS Licensing Now on Two-Year Cycle

All Clinical Laboratory Scientists are now on a two-year licensing cycle. The former one-year licensees have all been converted to the two-year cycle expiring on the holders' birthday in 2010 or 2011. New licensees are on a two-year cycle expiring on the anniversary of the license issue date. All renewals now require 24 CE for CLS and MLT to renew for the next two-year period. CE units must be earned during the current two-year licensing period for your next renewal. You cannot "carry over" excess CE from the last licensing period or earn units after expiration of your license.

CAMLT encourages all licensees (CLS, MLT and CPT) to earn their units early to avoid last minute problems getting the required units. We have an active program of quality educational events at both the state and local level which should allow licensees to earn their CE in a timely fashion. Check out our [Continuing Education Calendar](#) located on our website, www.camlt.org, under Continuing Education, to see a listing of upcoming programs.

If you are close to renewal and don't yet have the required units, CAMLT's Distance Learning is an excellent way to get those last minute units. There is a variety of course topics and many of the courses can be completed on-line. Distance Learning Courses can also be accessed on our website under Continuing Education.

Important Information Regarding CLS/MLT and Phlebotomy License Renewals:

- The State of California, Department of Public Health, Laboratory Field Services is taking as long as 6-8 weeks to process renewal applications. This is due to the mandatory Friday furloughs and the fact that the payments are processed first in Sacramento and then sent to Richmond for document processing.
- Your renewal should be received 60 days prior to the expiration. DO NOT wait until the last minute to send in your renewal.
- Even though for a CLS, there is a "grace" period, some Hospital organizations' policies require an active license [not expired] to continue working. The confirmation of an active license will appear on the State Verification Web Site up to 2-3 weeks prior to the "hardcopy" being printed and is valid proof that can be printed and attached to your expired license to display until you receive your hardcopy.
- MLT's and Phlebotomists DO NOT have a grace period. Your license expires on the date listed.

The Laboratory Field Services Web site to verify licensure is: <http://www.cdph.ca.gov/programs/lfs/Pages/PersonnelWebsiteLookup.aspx>

The Greening of CAMLT Continues

Rebecca Rosser, Immediate Past-President

Being Green means different things to different people. It could be as simple as recycling all that paper received in your mailbox on a daily basis to having a complete plan that becomes a part of your life. Conserving water, separating and recycling plastic containers, riding your bike or walking to work, purchasing a Hybrid car, volunteering to pick up trash in your neighborhood or painting out that graffiti are all ways of being Green.

CAMLT's effort to become "Green" started almost two years ago in an effort to contribute to the environment by not sending out as many pieces of paper as in the past. We have approached this effort at a slow and steady pace. Those of you who are Members and have an e-mail address on file, have been receiving your membership renewals via e-mail with a snail mail follow up if you have not responded. We encourage you to respond to those e-mails so we eliminate that snail mail piece.

We have been placing a lot of information on up-coming events on our website and via e-mail blasts to eliminate or reduce the number of education flyers that we were sending in the past. This has been met with a mixed response, as we feel that if we had put a little more effort into the mailing side, we might have had better attendance at our State Educational meetings. On the one hand we want to increase our electronic communication but on the other hand we want our members and non-members to participate in our events.

We have made a decision to limit the number of Newslines we are sending out for two reasons. The first is to support our Green initiative. The second is to keep our costs in line.

Lastly, we have placed all our distance learning courses on the Website. This allows easy access to the courses. In addition, you do not have to wait for the Newline, as in the past, for new courses to be added.

What do we want from you? If you are not a member – JOIN. Members, please make sure that the CAMLT office has your current and valid e-mail address. Check out the CAMLT website at www.CAMLT.org often for updated information and respond to e-mail blasts as they come your way.

Preserving the Past for the Future



Disneyland October 21 – 24 2010



Check out these exhibitors and more at: **Preserving the Past for the Future
CAML's Annual Meeting, October 21-24, 2010!**

SPONSORS

- General: Central California Counties Chapter
- General: San Diego Chapter
- Coffee Break: Fresno Chapter
- Coffee Break: Napa Chapter
- Speaker - 105-100: Alere San Diego, Inc.
- Speaker - 105-101, 105-302, & 105-502: Quest Diagnostics, Nichols Institute
- Speaker - 105-200: Applied Critical Care Sciences, Inc. (ACCS)
- Speaker - 105-202: Sysmex America, Inc.
- Speaker - 105-300: Beckman Coulter
- Speaker - 105-301: Siemens Healthcare Diagnostics
- Speaker - 105-303 & 105-402: ARUP Laboratories, Inc.
- Speaker - 105-400 & 105-500: Medical-Chemical Corporation
- Speakers - 105-501: San Diego Chapter

EDUCATOR'S SUMMIT - Friday

There's a charm and this year's third annual Educator's Summit will continue to feed on last year's excitement. Once again, all educators of Clinical Laboratory Science Professionals are invited to come together to share their experiences. A great agenda of varied topics of interest will be presented. One unit of continuing education will be issued at this year's meeting. If you have not received an invitation and would like to attend, please contact CAMLT at office@camlt.org for more information.

GENERAL INFORMATION

“*Preserving the Past for the Future*,” the 71st Annual Meeting and Exhibits for the California Association for Medical Laboratory Technology, will be held at Disney’s Paradise Pier® Hotel from Thursday, October 21 through Sunday, October 24, 2010. This meeting is open to CAMLT members and non-members alike.

ADVANCE REGISTRATION

Member:

- Send in your registration form
- Early-bird registration form must be postmarked by 10/1/2010
- Reserve your hotel room

Non-member:

- Send in registration form with membership application and save \$\$\$
- Early-bird registration must be postmarked by 10/1/2010
- Reserve your hotel room

ON-SITE REGISTRATION

- If you are unable to register in advance, on-site registration begins at 7:00 a.m. each day of the meeting.
- On-site registration is subject to availability.
- Additional on-site registration fee of \$5.00 applies.

SEMINAR START TIMES

- Continuing education courses start promptly at 8:30 a.m. and 1:30 p.m.

PARKING

- If you're staying at Disney's Paradise Pier® Hotel, you will be entitled to overnight self-parking for two (2) vehicles with in/out privileges.
- Drive-on Resort guests not staying at the hotel will be charged self-parking fees of \$9.00 per day (no in/out privileges).
- Valet parking for all guests will be an additional \$17.00.

AIRPORT TRANSPORTATION

- Web address for John Wayne Airport (closest to hotel): www.ocair.com

HOTEL DIRECTIONS

- Web address:
http://disneyland.disney.go.com/disneyland/en_US/transportation/landing?name=GettingToTheResortPage

CAMLT REFUND POLICY

- Complete refund issued for programs canceled by CAMLT.
- Complete refund for programs canceled by participant must be requested in writing by 10/4/10 and are subject to a \$25 cancellation fee.
- Full credit (less a \$25 cancellation fee) toward a future state seminar or convention will apply to requests for cancellation after 10/4/10 and prior to 10/18/10.
- Refunds/credits not applicable to cancellation requests after 10/18/10.

DISCLAIMER

- CAMLT hereby disclaims any liability for any products or services exhibited, nor does it necessarily support the content of any educational session. Acceptance of advertising does not indicate or imply product endorsement by CAMLT.

ACCREDITATION

CAMLT is approved by the California Department of Public Health as an accrediting agency for continuing education (provider #0021), by the State of Nevada Bureau of License and Certification and by ASCLS P.A.C.E.® program (provider #519).

ATTENDANCE POLICY

Choice of workshops may NOT be changed on-site. In compliance with California State Continuing Education (CE) regulations, participants MUST attend the entire workshop to receive CE credits. NO partial credit will be awarded for late arrivals/departures. NO EXCEPTIONS.

HOTEL/TRAVEL INFORMATION

You will be staying at ...

DISNEY'S PARADISE PIER® HOTEL

1717 S. Disneyland Drive

Anaheim, CA 92802

1.714.956.6425

http://disneyland.disney.go.com/disneyland/en_US/hotels/landing?name=ParadisePierHotelLandingPage

Delve into the nostalgic flavor, casual atmosphere and retro décor of the boardwalk-inspired Rooms and Suites of this Three Diamond Deluxe Hotel. Spectacular views of Paradise Pier at *Disney's California Adventure Park®* add an air of childhood excitement to your stay. Contemporary amenities and superior Disney service ensure the comforts and conveniences that make guests feel at home. A little slice of Paradise is available in your fresh, breezy, contemporary standard room, where you experience warm, personal service and magic in every detail. Or, enjoy the benefits of roomier accommodations when you choose a suite. If you prefer, guests who stay on the concierge level are entitled to these additional amenities: priority check-in, a variety of room choices – cabana or poolside; staff available prior to and during your visit for reservations and vacation planning; enjoy an exclusive lounge featuring Continental breakfast and evening wine and cheese reception; nightly turndown service; and DVD players and complimentary movies.

Note concerning housing:

CAMLT has made every effort to secure the best possible group nightly room rate for you at this event. The rate results from a negotiated overall package of event needs such as sleeping rooms, meeting room space, and other requirements. Contracts with the venue include a provision to reduce event costs if CAMLT meets or exceeds its minimum sleeping room block guarantee. Conversely, event costs will increase if CAMLT falls short of its minimum room block guarantee. Please help CAMLT keep the costs of this event as low as possible by booking your housing needs only at Disney's Paradise Pier Hotel through the reservation process below. Reserving elsewhere means you are booking outside the contracted room blocks, jeopardizing CAMLT's ability to meet its contracted obligations, and to keep registration fees to a minimum. CAMLT appreciates your support and understanding of this important issue.

Reservation Procedures

CAMLT has negotiated a block of standard guest rooms at a rate of \$129.00/single – quad.

Room rates are quoted exclusive of applicable state and local taxes (which are currently 8.75% + 15% respectively) or applicable services. *A Resort Fee, not to exceed \$12.00 (plus tax) per Guest Room per day will be charged to the guest upon check-out. Resort Fee will entitle guest to overnight self-parking of two (2) vehicles with in/out privileges; unlimited local telephone service (as defined by the applicable telephone service provider); free access telephone connections ("800" numbers); unlimited use of the fitness center; unlimited access to high speed internet in the Guest Room; and any other privileges as determined by Disney in its reasonable discretion.* Room rates are available over the dates of 10/18/2010 and 10/27/2010, based on Hotel's room and/or rate availability. Don't wait until the last minute. By providing CAMLT's name, you will be able to make room reservations by calling 1.714.520.5005. The online booking address is: <https://resweb.passkey.com/go/CAMLT>

Attendee Billing

Attendees will pay their own room rate, Resort Fee, taxes and incidental charges upon checkout. Attendees will be subject to the Hotel's general credit policies and procedures for guests at that time. Individual room reservations must be confirmed and guaranteed by the attendee at the applicable Group Room Rate (plus Resort Fee and applicable taxes) with either a credit card at time of booking or a deposit of one (1) night's room charges, within 21 days of booking. If the reservation is booked within 21 days of arrival, a credit card guarantee is required. Should an attendee change or cancel a reservation, a refund of the deposit or payment of cancellation fees will be in accordance with Disney's general policy for the Hotel at that time (Currently, a refund of a deposit is given if an individual's reservation is cancelled or changed at least seventy-two (72) hours prior to his/her scheduled arrival and a cancellation number is issued by the Hotel; if a reservation is not cancelled or changed at least seventy-two (72) hours prior to the scheduled arrival and/or a cancellation number is not issued by the Hotel, then the attendee's credit card is charged for one (1) night's room charge at the applicable Group Room Rate (plus Resort Fee and applicable taxes).

Cut-Off Date

The "cut-off-date" for accepting reservations into CAMLT's room block is Monday, October 4, 2010 or before CAMLT's Guest Room Block is sold out. *You are encouraged to reserve your room by the middle of September, in case the CAMLT Room Block sells out quickly.* Reservation requests received after the cut-off date may be based on availability at the Hotel's prevailing rates.

Check-In/Out Time

Check-in time is 3:00 p.m.; check-out time is before 11:00 a.m.

Hotel Guest Room Amenities

The following amenities are available to all guests at Paradise Pier® Hotel: Three Diamond Deluxe Hotel • king-size bed or two queen-size beds • room service • phones with voicemail • high speed internet access • irons/boards, refrigerators and coffee makers in each room • cribs available on request • safety deposit boxes available • Disney Channel and ESPN • non-smoking hotel • and disabled-accessible rooms available.

Recreation

Take advantage of an incredible rooftop pool and waterslide area, fitness facility, and a movie viewing area just for kids.

Restaurants

Disney's Paradise Pier® Hotel is home to several exceptional dining opportunities. Enjoy delicious California-inspired cuisine, a breakfast buffet featuring Disney Character Dining and classic favorites served with a contemporary flair. Also, make sure to check all the dining options available in the Downtown Disney® District.

Parking rate for Attendees not staying at the Paradise Pier® Hotel

Drive-on Resort attendees not staying at the hotel, but attending CAMLT functions, will be charged \$9.00 per day (no in/out privileges). Valet parking for all guests will be an additional (\$17.00).

Discounted Park Tickets

CAMLT attendees may pre-purchase discounted theme park tickets up to three (3) days in advance of arrival. These discounted tickets are only for the use of CAMLT attendees and promoting them or forwarding the link to non-CAMLT attendees is forbidden. Misuse of the discounted ticket store link will result in the link being removed and any existing ticket orders being cancelled. These discounted tickets are not available at the theme park main entrance. Ticket programs are subject to change without notification and certain block-out dates apply. Ticket Store Link – <http://www.disneyconventionear.com/GPCJ10B>

2010 CONVENTION EVENTS

Preliminary Schedule (Events & Times May Change)
All Events are located at Disney's Paradise Pier® Hotel

SEMINARS

51 units are being offered this year providing many choices for your continuing education needs, including 3 units on Civil War Medicine. Register early for best prices. You may also register on-site for any seminars still available.

STUDENT FORUM – Friday

Laboratory students in affiliate programs all over California have been invited to present poster sessions or PowerPoint presentations featuring their trainee research projects. All CLS, MLT, CPT, and Special License program students, as well as undergraduate students with an interest in laboratory science, are invited to attend the Student Forum. All convention attendees are welcome to come to enjoy the presentations and see that the future excellence of California laboratories is assured.

EDUCATOR'S SUMMIT – Friday

There's a charm and this year's third annual Educator's Summit will continue to feed on last year's excitement. Once again, all educators of Clinical Laboratory Science Professionals are invited to come together to share their experiences. A great agenda of varied topics of interest will be presented. One unit of continuing education will be issued at this year's meeting. If you have not received an invitation and would like to attend, please contact CAMLT at office@camlt.org for more information.

LUNCH AT EXHIBITS – Friday

As you come out of your morning seminar or meeting, go through the Exhibits and talk with the representatives. Identify the person in the picture located at each booth and deposit your answers in the CAMLT raffle ticket cage. Winners will be announced every half hour. Boxed lunches can be pre-purchased at \$25.00 per lunch (see registration form).

FUN-NITE – Friday

Join us for a class reunion – CAMLT style! Visit with old friends and make new while enjoying dinner. Bring your old CAMLT pictures, family pictures, etc. Show off your dance style from your favorite decade.

LAB-PAC WALK / RUN / STROLL – Saturday

Get your blood flowing while networking and getting ready for the House of Delegates or Saturday's Seminars. We will wander through Downtown Disney – the gateway to the "Happiest Place on Earth." The Walk/Run/Stroll raises funds for CAMLT's LAB-PAC.

LAB-PAC LUNCHEON – Saturday

Join us for our annual luncheon hosted by none other than our own Legislative Advocate, Kathy Rees. It is always interesting to listen to what the legislators have to say and to have the opportunity to let them know about the issues that affect CLS. Don't forget to bring your "mad money," check books, etc. for our annual LAB-PAC fundraiser.

INSTALLATION BANQUET – Saturday

The grand finale to this year's convention is a great opportunity to celebrate the successes of the year and our new Board Members as they are officially installed. The CLS of the Year will be revealed as you relax with good food, good music, and good friends.

Convention Committee

Debbie Revier – CoChair
Leslee Gill – CoChair
Jim Ottosen – Treasurer
Patty Fawkes – Decorations/Moral Support
Ann Tonini – Decorations/Moral Support
Rebecca Rosser - Mentor

2010 CONVENTION SCHEDULE

Thursday, October 21

- CAMLT Board of Directors Meeting: 10:00 am – 5:00 pm
BOD 10:00 am to 11:30 am – Lunch 11:30 with CCEA – BOD 2:00 pm to 5:00 pm
- CCEA Meeting after BOD Meeting (Lunch with BOD followed by meeting)
CCEA Meeting 12:00 to 2:00 pm

Friday, October 22

- CAMLT Education & Research Foundation Meeting: 8:00 – 10:00 am
- Student Forum: 10:00 am – 12:00 pm
- Educator’s Summit Meeting for educators and education coordinators
1:00 – 3:00 pm (See Convention Events, page 12 for information)
- Exhibits: 10:00 – 1:30 pm
- CAMLT Member Forum/Finance/Orientation & Training Meeting: 3:00 – 5:00 pm
- Fun-Nite: “All Years Reunion” ~ 7:00 – 10:00 pm

Saturday, October 23

- LAB-PAC Walk/Run/Stoll: 6:30 – 7:30 am Meet at 6:20 am in the Hotel Lobby
- Exhibits: 10:00 – 1:30 pm
- CAMLT House of Delegates: 8:00 am – 5:00 pm (House convenes at 9:00 am)
- CAMLT LAB-PAC Luncheon: 11:30 am – 1:15 pm
- Installation and Awards Banquet: 7:00 – 10:00 pm

Sunday, October 24

- CAMLT Board of Directors Meeting – 9:00 am – 12:00 pm

CAMLT 2010 Convention Tiger Adoption

In celebration of the year of the tiger, retired Beanie Babies® Blizzard (white tiger) and Stripes (orange tiger) will be available for adoption. Both are wearing mouse ears as they join us in “Preserving the Past for the Future” at CAMLT’s 2010 Annual Convention and Exhibits in Disneyland, CA.

You are invited to adopt one or more of these limited edition tigers for a tax deductible donation of \$25. The CAMLT 2010 Convention Tigers have been donated by lifetime member, Dora W. Goto. All proceeds from the adoptions benefit CAMLT Education and Research Foundation’s Mini Grants Program for Pre-licensing Preparation. Information about the Mini Grants Program is available at <http://www.camlt.org/research.html> or by contacting the CAMLT Executive Office at (510) 792-4441.

Make checks payable to: CAMLT E&R
Send order form and payment to:
CAMLT E&R
1895 Mowry Avenue, Suite 112
Fremont, CA 94538-1766

Name _____
Address _____ Telephone () _____

| | | |
|---|-------------|----------|
| No. of Convention Tiger(s) 2010 “Blizzard” _____ | @ \$25 each | \$ _____ |
| No. of Convention Tiger(s) 2010 “Stripes” _____ | @ \$25 each | \$ _____ |
| <input type="checkbox"/> I would like my Tiger(s) shipped ASAP _____ | @ \$ 8 each | \$ _____ |
| <input type="checkbox"/> Don’t ship! I will collect my tiger(s) at the convention (Oct 22-25) | | |
| Total enclosed | | \$ _____ |

Questions? Email dora@camlt.org



2010 CONVENTION SCHEDULE-AT-A-GLANCE

Friday, October 22

| | | | |
|---|--|---|--|
| 105-108 – 10:00 a.m. – 12:00 p.m. – Student Forum | | 105-109 – 1:00 – 3:00 p.m. – Educator’s Program | |
| <p>105-100 - 3.0 CE/Contact Hours 8:30 – 11:30 a.m. Howard J. Kirchick, PhD BNP, Heart Failure, and Acute Coronary Syndromes (ACS); Utility of D-dimer in the Emergency Department <i>Sponsored by Alere San Diego, Inc.</i></p> | <p>105-101 - 3.0 CE/Contact Hours 8:30 – 11:30 a.m. Mervyn A. Sahud, MD Part 1: Thrombopoietin: The Principal Humoral Regulator of Platelet Production; Part 2: Aspirin Resistance (Note: you must attend both parts to receive credit; no partial credit awarded) <i>Sponsored by Quest Diagnostics, Nichols Institute</i></p> | <p>105-102 - 3.0 CE/Contact Hours 8:30 – 11:30 a.m. Beatrice R. O’Keefe, MBA, BS; Zahwa Amad, PhD; & Nema Lintag, CLS California Hot Topics: Emerging Field of Genetic Risk Analysis: Regulatory Impact at State and Federal Level, Recent Changes in Clinical Laboratory Regulations Including Personnel Requirements</p> | |
| <p>105-200 - 3.0 CE/Contact Hours 1:30 – 4:30 p.m. Timothy S. Bhagwat, MBA, VP Thrombelastograph® (TEG®): Hemostasis in the New Millennium <i>Sponsored by Applied Critical Care Sciences, Inc. (ACCS)</i></p> | <p>105-201 - 3.0 CE/Contact Hours 1:30 – 4:30 p.m. Janet Otey, BS, MT(ASCP), Donald Miyamoto, & Robert Hunter Part 1: Tissue Banking 2010 and Beyond Part 2: Cytology and CLIA Updates for 2010 Part 3: Blood Banking for 2010 (Note: you must attend entire presentation to receive credit; no partial credit awarded)</p> | <p>105-202 - 3.0 CE/Contact Hours 1:30 – 4:30 p.m. Bob Downey, MT(ASCP) Part 1: Beyond the Routine CBC – The Empowered Laboratory Part 2: Automated Body Fluids in Hematology (Note: you must attend both parts to receive credit; no partial credit awarded) <i>Sponsored by Sysmex America, Inc.</i></p> | |

Saturday, October 23

| | | | |
|---|--|---|--|
| <p>105-300 - 3.0 CE/Contact Hours 8:30 – 11:30 a.m. KC Joy, BS Tumor Markers: Past, Present, and Future <i>Sponsored by Beckman Coulter</i></p> | <p>105-301 - 3.0 CE/Contact Hours 8:30 – 11:30 a.m. Nancy J. Haley, PhD Part 1: Biomarkers in the Early Detection of Sepsis Part 2: Epidemiology of Breast Cancer and the Use of Biomarkers in Diagnosis and Treatment (Note: you must attend both parts to receive credit; no partial credit awarded) <i>Sponsored by Siemens Healthcare Diagnostics, Inc.</i></p> | <p>105-302 - 3.0 CE/Contact Hours 8:30 – 11:30 a.m. Arturo Anguiano, MD Part 1: Past, Present, and Future of Prenatal Cytogenetic Diagnostics Part 2: Genomic Microarray into Clinical Practice (Note: you must attend both parts to receive credit; no partial credit awarded) <i>Sponsored by Quest Diagnostics, Nichols Institute</i></p> | <p>105-303 - 3.0 CE/Contact Hours 8:30 – 11:30 a.m. Karen A. Brown, MS Hematology M&Ms: The Maturation, Morphology, and Mystery of Erythrocytes <i>Sponsored by ARUP Laboratories, Inc.</i></p> |
| <p>105-400 - 3.0 CE/Contact Hours 1:30 – 4:30 p.m. Lynne S. Garcia, MS, MT, FAAM Diagnostic Parasitology: A Practical Approach for Clinical Relevance <i>Sponsored by Medical Chemical Corporation</i></p> | <p>105-401 – 3.0 CE/Contact Hours 1:30 – 4:30 p.m. Elizabeth Crabb Breen, PhD An Update on HIV and AIDS 2010</p> | <p>105-402 - 3.0 CE/Contact Hours 1:30 – 4:30 p.m. Karen A. Brown, MS Phlebotomy Ps and Qs <i>Sponsored by ARUP Laboratories, Inc.</i></p> | <p>105-403 - 3.0 CE/Contact Hours 1:30 – 4:30 p.m. Christine A. Kirvan, PhD Update on the Pathogenesis and Diagnosis of Group A Streptococcal Infections</p> |

Sunday, October 24

| | | |
|---|--|--|
| <p>105-500 - 3.0 CE/Contact Hours 8:30 – 11:30 a.m. Lynne S. Garcia, MS, MT, FAAM Diagnostic Parasitology: Potential Problems in the Diagnosis of Blood Parasites <i>Sponsored by Medical Chemical Corporation</i></p> | <p>105-501 - 3.0 CE/Contact Hours 8:30 – 11:30 a.m. Michael W. French, BS, MPH, CLS Leslie K. Revier, BS, MBA, CLS Laboratory Medicine in the American Civil War <i>Sponsored by San Diego Chapter, CAMLT</i></p> | <p>105-502 - 3.0 CE/Contact Hours 8:30 – 11:30 a.m. Stanley Naides, MD The Laboratory in the Diagnosis of Autoimmune Arthritis <i>Sponsored by Quest Diagnostics, Nichols Institute</i></p> |
|---|--|--|

CAMLT 2010 ANNUAL MEETING
REGISTRATION FORM

October 21 - October 24, 2010

Print Clearly. One registrant per form only (copies are acceptable). Incomplete forms will be returned unprocessed.

Name: _____

Home Address: _____

City: _____ State: _____ Zip: _____

Day Tel: _____

CAMLT Member #: _____

Renewal Date: _____ CLS License #: _____

Employer: _____

Work Address: _____

City: _____ State: _____ Zip: _____

E-mail Address: _____

Work Tel: _____

A. CAMLT MEMBER APPLICATION: (Optional)

Complete membership application form & include with registration form.

Subtotal A: _____

B. GENERAL REGISTRATION FEE

(Required of ALL Registrants)

| “Early Bird” registration fee: (Only if postmarked by 10/1) | Pre-Registration fee: (If postmarked after 10/1) |
|--|---|
| Member: \$30 | Member: \$40 |
| Non-member: \$40 | Non-member: \$60 |
| Student:* free | Student:* free |

*Signature/phone # of Education Coordinator/Instructor required here for student rate!

Subtotal B: _____

FOR OFFICE USE ONLY: Date: _____ Co. Ck# _____ Pers. Ck# _____ Amount: _____ O/P: _____ U/P: _____
VISA/MC Credit Authorization: _____

CAMLT LAB-PAC EVENTS

You may pay by either VISA/MasterCard or by check.
Write separate check to: CAMLT LAB-PAC

Run/Walk/Stroll (Sat., 10/23) _____ @ \$25 ea. = _____
Luncheon (Sat., 10/23) _____ @ \$35 ea. = _____

TOTAL LAB-PAC \$ _____

C. WORKSHOP SELECTION AND FEES: See program for details and code numbers, then indicate workshop choice(s) by entering code numbers below (e.g., 105-100):

| | AM | PM |
|-------------|----|----|
| Fri., 10/22 | | |
| Sat., 10/23 | | |
| Sun., 10/24 | | |

Members: \$15 per CE Student Members: free

Non-Members: \$25 per CE

_____ CE(s) x \$ _____ per CE = **Subtotal C:** _____

D. 20/20 DISCOUNT: Only applies to active CAMLT members who are currently enrolled for this benefit.

Total B: \$ _____

Total C: \$ _____

_____ x 0.20 = **Subtotal D:** (\$ _____)

E. SOCIAL EVENTS: For Registrants and Guests

Fri. (10/22) Student Forum _____ (check here to register) FREE

Fri. (10/22) Lunch at Exhibits _____ @ \$25 ea. = _____

Fri. (10/22) Fun-Nite _____ @ \$40* ea. = _____

**Fun Nite is half price if you take 12 CE.*

Register for half price Fun-Nite? [] Yes [] No

Fri. (10/22) Half-price Fun-Nite _____ @ \$20 ea. = _____

Sat. (10/23) Installation Banquet _____ @ \$45 ea. = _____

Subtotal E: \$ _____

GRAND TOTAL (A+B+C-D+E): \$ _____

Questions? Call us at 510-792-4441

METHOD OF PAYMENT:

() Check Payable to: 2010 Convention Fund

(Returned checks subject to a \$20 fee)

() VISA or () Master Card (Check card type)

Card #: _____ Exp. Date: _____

Signature: _____

Mail to:

CAMLT 2010 ANNUAL MEETING

1895 Mowry Ave., Ste. 112

Fremont, CA 94538

YOU MAY FAX REGISTRATION FORM TO:

(510) 792-3045 (VISA/MasterCard ONLY)

**Friday,
October 22, 2010**

8:30 – 11:30 a.m.

BNP, Heart Failure, and Acute Coronary Syndromes (ACS) & Utility of D-dimer in the Emergency Department

105-100 – 3.0 CE/Contact Hours

Howard J. Kirchick, Ph.D.
Director of Scientific Affairs
Alere San Diego, Inc.
San Diego, CA

Sponsored by Alere San Diego, Inc.

Level of Instruction: Intermediate

Abstract: The presentation will cover the pathophysiology of heart failure and of venous thromboembolism (VTE) as well as the various diagnostics the laboratory can use to help in the assessment of these conditions. The portion of the talk dealing with the diagnosis of heart failure will also focus on the use of natriuretic peptides for risk stratification for both heart failure and for acute coronary syndromes (ACS). A consensus document focusing on applications of BNP in clinical cardiology and another with a more in depth look at the use of BNP in risk assessment for ACS will be referenced throughout the heart failure portion of the presentation. The VTE portion of the presentation will describe the various imaging technologies available for the assessment of pulmonary embolism (PE) and deep vein thrombosis (DVT) as well as the use of the D-dimer blood test. Particular emphasis will be placed on the benefits of using the relatively inexpensive and non-invasive D-dimer test at the point of care as a means of reducing the number of the more expensive and invasive imaging studies conducted.

Objectives: Upon completion of this course, the participant will be able to: 1) describe the pathophysiology of heart failure; 2) enumerate the intended uses of BNP; 3) discuss the use of BNP in risk assessment of ACS patients; 4) describe the pathophysiology of deep vein thrombosis and pulmonary embolism; 5) summarize the diagnostic modalities available for venous thromboembolism; and 6) describe D-dimer testing and how it is used for assessment of venous thromboembolism.

**Friday,
October 22, 2010**

8:30 – 11:30 a.m.

Part I: Thrombopoietic: The Principal Humoral Regulator of Platelet Production

Part II: Aspirin Resistance

(Note: you must attend both parts to receive credit; no partial credit awarded)

105-101 – 3.0 CE/Contact Hours

Mervyn A. Sahud, MD, FACP
Medical Director, Coagulation Department
Quest Diagnostics, Nichols Institute
San Juan Capistrano, CA

Sponsored by Quest Diagnostics/Nichols Institute

Level of Instruction: Intermediate

Part I Outline (Thrombopoietin: (TPO))

- History
- Mechanism of Action
- Unexpected Side Effects of rhTPO
- Market Driven Production of TPO Agonists
 - Eltrombopag
 - Romiplostin
 - Side Effects
 - Responses
- Measurement of TPO and Anti-TPO

Part I Objectives: Upon completion of this course, the participant will be able to: 1) identify what Thrombopoietin is, its action and why we should measure it; 2) describe the unexpected side effects of rhTPO; and 3) discuss TPO agonists and their market driven production.

Part II Abstract (Aspirin Resistance):

Aspirin is one of the most common medications taken to prevent a cardiac or neurological event. However, even with this medication 10-20% of patients will have a reoccurrence of a vascular event.

Aspirin, which inhibits platelet cyclooxygenase, reduces the risk of thrombosis in cardiovascular disease by impairing platelet function. The measurement of 11-DEHYDRO THROMBOXANE B-2 in urine (the principal metabolite of platelet cyclo-oxygenase derived thromboxane B-2) indicates lack of aspirin responsiveness.

Part II Objectives: Upon completion of this course, the participant will be able to: 1) identify the role of platelets in lethal vascular events such as coronary thrombosis and stroke; 2) explain the mode of action of aspirin on platelet function; 3) discuss the effect of daily aspirin ingestion on the reduction in heart attack and stroke risk; and 4) list the causes and mechanisms of “aspirin resistance.

**Friday,
October 22, 2010**

8:30 – 11:30 a.m.

California Hot Topics: Emerging Field of Genetic Risk Analysis: Regulatory Impact at State and Federal Level, Recent Changes in Clinical Laboratory Regulations Including Personnel Requirements

105-102 – 3.0 CE/Contact Hours

Beatrice R. O’Keefe, MBA, BS, Chief
Zahwa Amad, PhD, Examiner II, CLS Program Manager
Nema F. Lintag, CLS, Examiner I, MLT Program Manager
California Department of Public Health
Laboratory Field Services Division
Richmond, CA

Level of Instruction: Intermediate

Abstract: California’s clinical laboratories are experiencing rapid changes in technology; at the same time there are a limited number of available laboratory professionals. Genetic tests can be ordered over the internet and future wide spread distribution is possible. This has led to increased scrutiny at both the state and federal level. Licensed clinical laboratory professionals are needed to perform not only genetic tests but all types of laboratory testing. How will California’s personnel regulations change in order to meet the demand? Should standards for testing personnel be lowered? These issues and current regulations will be discussed along with possible solutions to deal with these challenges in an era of limited resources.

Objectives: Upon completion of this course, the participant will be able to: 1) describe the reasons for the shortage of clinical laboratory professionals in California; 2) identify changes in proposed personnel regulations; 3) identify some of the tests that cannot be performed by unlicensed persons; 4) list two genetic tests that utilize a software algorithm for risk analysis; 5) describe the qualifications for personnel performing genetic tests; and 6) list the requirements for validating a laboratory developed or genetic test.

**Friday,
October 22, 2010**

1:30 – 4:30 p.m.

**Thrombelastograph® (TEG®):
Hemostasis in the New Millen-
nium**

105-200 – 3.0 CE/Contact Hours

Timothy S. Bhagwat, MBA, VP
TEG Clinical Specialist
Applied Critical Care Sciences, Inc.
Hurst, TX

*Sponsored by Applied Critical Care Sciences,
Inc.*

Level of Instruction: Intermediate

Abstract: With the help of retrospective case studies this course will show how with the shortage and expense of blood products, hospitals are beginning to use the TEG® as a means to assist the clinician to identify, in a bleeding patient, which blood component is needed to balance a patient's Hemostasis. Conversely, the TEG® is also being used to identify the prothrombotic condition of a patient.

Objectives: Upon completion of this course, the participant will be able to: 1) describe the interaction of protein coags and platelet function, the Clot; 2) compare TEG® to current coagulation tests; 3) discuss how the TEG® works; and 4) describe reporting of the TEG® results.

**Friday,
October 22, 2010**

1:30 – 4:30 p.m.

**Part 1: Tissue Banking 2010 and
Beyond**

**Part 2: Cytology and CLIA Updates
for 2010**

Part 3: Blood Banking for 2010

(Note: you must attend entire presentation to receive credit; no partial credit awarded)

105-201 – 3.0 CE/Contact Hours

Janet Otey, BS, MT(ASCP)
Donald Miyamoto
Robert Hunter
California Department of Public Health
Laboratory Field Services
Richmond, CA

Level of Instruction: Intermediate

Abstract: not available at press time; check CAMLT's website for updated information

Objectives (Part 1): Upon completion of this course, the participant will be able to: 1) identify current tissue banking activities; 2) discuss how the proposed new personnel regulations may affect ART tissue banks; and 3) identify new directions that tissue banking is taking, e.g., Stem Cells.

Objectives (Part 2): Upon completion of this course, the participant will be able to: 1) identify current and proposed cytology PT regulations; 2) list and discuss CMS's top 10 deficiencies findings; and 3) identify and clarify issues with Electronic Health Records.

Objectives (Part 3): Upon completion of this course, the participant will be able to: 1) not available at press time; check CAMLT's website for updated information.

**Friday,
October 22, 2010**

1:30 – 4:30 p.m.

**Part 1: Beyond the Routine CBC
– The Empowered Laboratory**

**Part 2: Automated Body Fluids in
Hematology**

(Note: you must attend both parts to receive credit; no partial credit awarded)

105-202 – 3.0 CE/Contact Hours

Bob Downey, DLM(ASCP)SLS
Technical Solutions Specialist
Sysmex America, Inc.
Mundelein, IL

Sponsored by Sysmex America, Inc.

Level of Instruction: Basic

Abstract (Part 1): This program will introduce participants to the advanced clinical parameters that are available on a routine hematology analyzer. Many of these parameters can be used to evaluate various aspects of hematopoiesis. The technology used to determine these advanced clinical parameters, as well as some of the clinical applications, will be presented. Some of the parameters to be discussed include Immature Reticulocyte Fraction, Immature Platelet Fraction, and Reticulocyte Hemoglobin. Case studies for each of the advanced parameters will be reviewed.

Abstract (Part 2): This presentation will provide information about performing automated Body Fluid analysis on a hematology analyzer. Advantages and limitations of automated body fluid analysis will be discussed. Case studies with scattergram interpretation for different types of body fluids will be reviewed.

Objectives (Part 1): Upon completion of this course, the participant will be able to: 1) comprehend the technology and explain the operational benefits of the advanced clinical parameters; 2) list at least two clinical applications for each advanced clinical parameter discussed; and 3) describe steps needed to implement these advanced clinical parameters in your lab.

Objectives (Part 2): Upon completion of this course, the participant will be able to: 1) discuss the advantages of the automated cell counts over manual cell counts; 2) explain the meaning of analytical measurement range and clinically reportable range; and 3) identify features of benign and malignant cells when performing body fluid cell counts.

Preserving the Past for the Future



Disneyland October 21 – 24 2010

**How about Fun Night? 50% off when you at-
tend 12 units!**

**Saturday,
October 23, 2010**

8:30 – 11:30 a.m.

Tumor Markers: Past, Present, and Future

105-300 – 3.0 CE/Contact Hours

KC Joy, BS
Immunoassay Consultant
Beckman Coulter Corporation
Brea, CA

Sponsored by Beckman Coulter Corporation

Level of Instruction: Intermediate

Abstract: In the first portion of this session, the speaker will present basic definitions and nomenclature of cancer and how a physician may grade or stage a cancer. Next, he will discuss the past and current clinical application of the tumor markers available. These markers include CA 19-9, CA 15-3, CA 125, PSA, CEA, & AFP. Next the speaker will discuss how a clinical cut-off is established and the drawbacks of having a cut-off. Finally, some of the near-future tumor markers and how they will change patient care will be discussed.

Objectives: Upon completion of this course, the participant will be able to: 1) distinguish the classifications and origins of neoplasms; 2) define the role of tumor markers in the management of cancer; 3) analyze the clinical utility of CA 19-9, CA 125, CA-15-3, and PSA; and 4) discuss the future of markers for benign and malignant disease.

**Saturday,
October 23, 2010**

8:30 – 11:30 a.m.

Part 1: Biomarkers in the Early Detection of Sepsis

Part 2: Epidemiology of Breast Cancer and the Use of Biomarkers in Diagnosis and Treatment

(Note: you must attend both parts to receive credit; no partial credit awarded)

105-301 – 3.0 CE/Contact Hours

Nancy J. Haley, PhD
Senior Clinical Specialist
Disease State Marketing
Siemens Healthcare Diagnostics
Deerfield, IL

Sponsored by Siemens Healthcare Diagnostics

Level of Instruction: Intermediate

Abstract (Part 1): Sepsis is a complex clinical syndrome that is a leading cause of death worldwide. Onset can be rapid, with mortality occurring in as little as 24-48 hours. Pathogenesis is often associated with the “cytokine storm”, an uncontrolled response of the immune system, which can lead to hemodynamic instability and organ failure. Clinical symptoms alone are often insufficient for an early and accurate diagnosis, reducing an already limited window for effective treatment. Emerging biomarkers of sepsis may allow a more rapid and accurate diagnosis, resulting in earlier intervention and improved patient outcomes.

Objectives (Part 1): Upon completion of this course, the participant will be able to: 1) describe the current definition of sepsis; 2) understand the differences between the systemic inflammatory response (SIRS) and sepsis, severe sepsis, and septic shock; and 3) identify the clinical value for early identification of sepsis.

Abstract (Part 2): Breast cancer is one of the more common cancers affecting women around the world. This presentation will address the occurrence, diagnosis, and prognosis of breast cancer as well as the techniques used in early detection. Biomarkers play a useful role in the diagnosis and treatment of breast cancer. While the hormone receptors and cancer markers usually used for diagnosis, a novel marker, HER-2/neu is emerging as an important tool in determining the effectiveness of treatment. The role of HER-2/neu in the diagnosis and monitoring of breast cancer is also reviewed, including tests that utilize either tissue or serum samples.

Objectives (Part 2): Upon completion of this course, the participant will be able to: 1) discuss the epidemiology of breast cancer and the stages of the disease; 2) recognize the importance of early detection; and 3) describe the HER2/neu protein in breast cancer and the value of both tissue and serum-based HER2/neu tests.

**Saturday,
October 23, 2010**

8:30 – 11:30 a.m.

Part 1: Past, Present, and Future of Prenatal Cytogenetic Diagnostics

Part 2: Genomic Microarray into Clinical Practice

(Note: you must attend both parts to receive credit; no partial credit awarded)

105-302 – 3.0 CE/Contact Hours

Arturo J. Anguiano, MD
Vice Chairman, Genetics
Quest Diagnostics, Nichols Institute
San Juan Capistrano, CA

Sponsored by Quest Diagnostics, Nichols Institute

Level of Instruction: Intermediate

Abstract: Array-based Comparative Genomic Hybridization (aCGH) is a testing platform that detects abnormal gain or loss of genetic material in human biological specimens. It has a higher analytical resolution than conventional chromosome analysis in the detection of duplications/deletions. aCGH has been used in the investigation of children with developmental and/or phenotypic abnormalities. Also, it is used as an adjunct in prenatal diagnosis. Products of conception that have no cell growth in culture are amenable to this test. Hematological malignancies and solid tumors have also been approached by this revolutionary method.

Objectives: Upon completion of this course, the participant will be able to: 1) present the testing evolution of clinical cytogenetics from the conventional karyotype, to FISH, to array-based Comparative Genomic Hybridization (aCGH); and 2) determine the scope and limitations of each one of these testing platforms.

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Disneyland October 21 – 24 2010

Book early and SAVE \$\$.

**Saturday,
October 23, 2010**

8:30–11:30 a.m.

Hematology M&Ms: The Maturation, Morphology, and Mystery of Erythrocytes

105-303 – 3.0 CE/Contact Hours

Karen A. Brown, MS, MLS(ASCP)^{CM}
Professor and Program Director
Medical Laboratory Science Program
Department of Pathology University of Utah/
ARUP Laboratories
Salt Lake City, UT

Sponsored by ARUP Laboratories, Inc.

Level of Instruction: Intermediate

Abstract: This workshop is designed to review core concepts in the evaluation of erythrocytes on Wright-stained peripheral blood and bone marrow smears. Areas to be discussed include the normal RBC maturation sequence, common RBC morphologic variations, and morphologic characteristics of selected anemias. Correlation of abnormal RBC morphologic variations will be presented using case studies.

Objectives: Upon completion of this course, the participant will be able to: 1) identify the normal maturation sequence of erythrocytes; 2) identify and describe the underlying physiologic process for abnormal variations in RBC size, shape, hemoglobin concentration, distribution, and inclusions; and 3) correlate abnormal RBC morphologic variations with selected case studies.

**Saturday,
October 23, 2010**

1:30 – 4:30 p.m.

Diagnostic Parasitology: A Practical Approach for Clinical Relevance

105-400 – 3.0 CE/Contact Hours

Lynne S. Garcia, MS, MT, FAAM
Director, LSG & Associates
Diagnostic Medical Parasitology and Health-care Administration
Consulting, Teaching, Training Services
Santa Monica, CA

Sponsored by Medical-Chemical Corporation

Level of Instruction: Intermediate

Abstract: The program will provide updated information on diagnostic medical parasitology ordering, specimen collection (including the new Universal Fixatives), processing, testing, and reporting (including relevant report comments). Key changes regarding O&P examination, fecal immunoassays, and special stains for coccidia and microsporidia will be covered. Organism morphology, including name changes and clinical relevance will also be included. A practical approach to testing will be emphasized. An extensive handout will be provided to each participant.

Objectives: Upon completion of this course, the participant will be able to: 1) describe the role of the laboratory and clinician regarding stool testing orders for routine and immunoassay procedures and the use of the new UNIVERSAL FIXATIVES; 2) discuss the pros and cons for the routine O&P exam, as well as fecal immunoassays; 3) discuss the recommended diagnostic methods available for the coccidia and microsporidia; 4) describe the morphology of the intestinal parasites (amebae, helminths) and changes in reporting (names, quantitation, clinical relevance); and 5) describe the importance of additional computer comments in reporting parasitology test results.

**Saturday,
October 23, 2010**

1:30 – 4:30 p.m.

An Update on HIV and AIDS 2010

105-401 – 3.0 CE/Contact Hours

Elizabeth Crabb Breen, MT(ASCP), PhD
Adjunct Associate Professor, Cousins Center for Psychoneuroimmunology
UCLA Semel Institute for Neuroscience & Human Behavior
Co-Director, Inflammatory Biology Core Laboratory, Older Americans Independence Center
David Geffen School of Medicine
University of California, Los Angeles

Level of Instruction: Intermediate

Abstract: As the number of new HIV infections each year in the U.S. has remained virtually unchanged, deaths from AIDS have declined. Hence, the number of persons living with HIV and/or AIDS in this country continues to rise, increasing the need for healthcare services for the HIV-infected population. It is important, therefore, for all healthcare professionals to be well-informed regarding HIV and AIDS. This course will provide clinical laboratory scientists with an update on the biology of HIV (with a special focus on transmission of HIV and potential occupational exposure), laboratory testing for diagnosis and management of HIV infection, new anti-viral drugs for control of HIV, and the latest statistics on the U.S. and global HIV/AIDS pandemic.

Objectives: Upon completion of this course, the participant will be able to: 1) identify the cells in the body that can be infected by Human Immunodeficiency Virus (HIV); 2) list the ways in which HIV is transmitted; 3) identify the precautions necessary to prevent occupational exposure and infection by HIV; 4) describe tests used for diagnosis or clinical management of HIV infection; 5) list three enzymes unique to the HIV life cycle that are targets for anti-viral drug therapy; and 6) describe trends in reported HIV infections and AIDS cases in the U.S. and worldwide.

Preserving the Past for the Future



Disneyland October 21 – 24 2010

Bring the family to Disneyland and California Adventure!

**Saturday,
October 23, 2010**

1:30 – 4:30 p.m.

Phlebotomy Ps & Qs
105-402 – 3.0 CE/Contact Hours

Karen A. Brown, MS, MLS(ASCP)^{CM}
Professor and Program Director
Medical Laboratory Science Program
Department of Pathology University of Utah/
ARUP Laboratories
Salt Lake City, UT

Sponsored by ARUP Laboratories, Inc.

Level of Instruction: Intermediate

Abstract: This workshop will discuss pre-analytical and physiological factors affecting specimen collection. A review of the venipuncture procedure will highlight considerations in technique and patient preparation. The potential impact of blood collection errors on patients and laboratory testing will be emphasized. People issues to include ethical situations and interactions with patients will be presented in a case study format. Quality assurance in the phlebotomy setting will also be reviewed.

Objectives: Upon completion of this course, the participant will be able to: 1) identify pre-analytical and physiological factors that can interfere with adequate specimen collection; 2) describe the process for properly performing a venipuncture; 3) develop techniques for effective and professional patient interactions; 4) discuss situations that warrant special preparation of the patient for venipuncture; and 5) correlate interfering factors and improper collection techniques with specific consequences to patients or test results.

**Saturday,
October 23, 2010**

1:30 – 4:30 p.m.

**Update on the Pathogenesis and
Diagnosis of Group A Streptococcal
Infections**
105-403 – 3.0 CE/Contact Hours

Christine A. Kirvan, Ph.D.
Associate Professor
Department of Biological Sciences
CSU Sacramento
Sacramento, CA

Level of Instruction: Intermediate

Abstract: Group A streptococcus (*Streptococcus pyogenes*) is a clinically relevant Gram positive, extracellular bacterial pathogen that causes significant morbidity and mortality. *S. pyogenes* is the etiological agent of severe and invasive diseases including streptococcal toxic shock syndrome and necrotizing fasciitis, which are coupled to high mortality rates. Group A streptococci have been investigated for its significant role in the development of acute rheumatic fever (ARF), a post-streptococcal sequela characterized by immunological damage to the heart, joint, and brain. Streptococcal-induced neurological disorders have recently been associated with the PANDAS subgroup of pediatric onset obsessive-compulsive disorder (OCD) and tic disorders, including Tourette syndrome. Case studies and salient laboratory tests will be discussed.

Objectives: Upon completion of this course, the participant will be able to: 1) list the virulence factors and mechanisms of group A streptococcus; 2) define the severe and invasive disease syndromes associated with group A streptococcal infection; 3) distinguish immunological mechanisms linked to the development of acute rheumatic fever; 4) explain the antibody-mediated pathology of Sydenham's chorea; and 5) compare the pathology of Sydenham's chorea and PANDAS OCD and Tourette syndrome.

**Sunday,
October 24, 2010**

8:30-11:30 a.m.

**Diagnostic Parasitology: Potential
Problems in the Diagnosis of Blood
Parasites**
105-500 – 3.0 CE/Contact Hours

Lynne S. Garcia, MS, MT, FAAM
Director, LSG & Associates
Diagnostic Medical Parasitology and Health-care Administration
Consulting, Teaching, Training Services
Santa Monica, CA

Sponsored by Medical-Chemical Corporation

Level of Instruction: Intermediate

Abstract: The program will provide updated information on diagnostic medical parasitology for blood parasites (ordering, specimen collection, processing, testing, and reporting including recommended report comments). Key risk management issues regarding mishandling/misdiagnosis of these infections will also be included for the five species of human malaria (*Plasmodium vivax*, *P. ovale*, *P. falciparum*, *P. malariae*, and the fifth human malaria *P. knowlesi*). Information related to blood parasite infections being seen in Afghanistan and Iraq will also be discussed, as will the spread of certain blood parasites within the United States. A practical approach to testing will be emphasized. An extensive handout will be provided to each participant.

Objectives: Upon completion of this course, the participant will be able to: 1) discuss the potential problems with inappropriate specimen collection and processing; 2) describe the options now available for blood stains as well as finger stick vs. venipuncture; 3) list several risk management problems associated with blood parasite testing; 4) describe the importance of STAT testing related to patient history/reporting with blood parasites; review of recommended report comments; and 5) discuss the morphology/identification of the blood parasites, including those being seen from Afghanistan and Iraq and the fifth human malaria, *Plasmodium knowlesi*.

Preserving the Past for the Future



Disneyland October 21 – 24 2010

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land's luxurious Paradise Peir
Hotel.**

**Sunday,
October 24, 2010**

8:30 – 11:30 a.m.

Laboratory Medicine in the American Civil War

105-501 – 3.0 CE/Contact Hours

Michael W. French, BS, MPH, CLS
Santee, CA
Leslie K. Revier, BS, MBA, CLS
Poway, CA

Level of Instruction: Intermediate

Abstract: The American Civil War (1861-1865) was considered to be the first of the “modern” wars. Laboratory medicine was in its early development in the early 1860s. This presentation will discuss information researched from many primary and secondary sources regarding the state of laboratory and medical practice in Civil War America.

During the war more soldiers died of disease than of wounds. Common diseases such as measles, chicken pox, and mumps killed thousands. Typhoid fever, yellow fever, diarrhea, and malaria ravaged the military camps. On the battlefield, overwhelmed and poorly trained physicians struggled with infected wounds, spoiled food, lack of sanitation, no ambulance corps, and few hospitals for their patients. At the outbreak of the Civil War in 1861 there were only 20 thermometers in the entire northern army.

Diagnosis and treatment as a result of exposure to diseases and infections provided the impetus for the growth of laboratory medicine. Join us for a look back at the roots of modern healthcare and laboratory medicine.

Objectives: Upon completion of this course, the participant will be able to: 1) determine the state of laboratory medicine immediately preceding the Civil War in antebellum America; 2) discuss key figures and their contributions to laboratory medicine; 3) relate how civil war medicine affected soldiers during the war; and 4) discuss the impact of American Civil War medicine on postbellum America.

**Sunday,
October 24, 2010**

8:30 – 11:30 a.m.

The Laboratory in the Diagnosis of Autoimmune Arthritis

Part 1: Understanding Antinuclear Antibody (ANA) Testing

Part 2: Diagnosing Rheumatoid Arthritis

(Note: you must attend both parts to receive credit; no partial credit awarded)

105-502 – 3.0 CE/Contact Hours

Stanley J. Nades, MD, FACP, FACR
Medical Director and Interim Scientific Director
Immunology R&D
Quest Diagnostics, Nichols Institute
San Juan, Capistrano

Sponsored by Quest Diagnostics, Nichols Institute

Level of Instruction: Intermediate

Abstract (Part 1): An effective immune system has the ability to distinguish self from non-self. During development, the immune system is educated to either eliminate self-reacting antibody producing B lymphocytes or to render inert (anergize) them and the T lymphocytes that help them to produce antibody. The development of antibody to self, autoantibody, often results in disease. The antinuclear antibody (ANA) test is one of the earliest assays for detecting autoantibodies. Its refinement has allowed definition of the fine specificities of ANA, the nucleic acid and protein targets they recognize, and the various diseases associated with those specificities.

Abstract (Part 2): Rheumatoid arthritis is a systemic autoimmune disease characterized by inflammatory involvement of the small and medium joints. Patients may be limited by joint swelling, redness, heat, pain, and loss of function. About 0.5-1% of the population suffers from rheumatoid arthritis with women being 2 to 3 times more likely to develop this disease. Recent development of effective therapeutic regimens allows early diagnosis to prevent joint destruction. Rheumatoid factor (RF), an autoantibody targeting other immunoglobulins, has been used as an early marker of rheumatoid arthritis, but may also be seen in other autoimmune, chronic inflammatory, infectious, and neoplastic diseases. The advent of newer RF assays and other autoantibody

markers of rheumatoid arthritis has allowed improved diagnostic strategies.

Objectives (Part 1): Upon completion of this course, the participant will be able to: 1) describe the evolution in methodologies used to detect antinuclear antibodies; 2) determine the nature of the targets of antinuclear antibodies; and 3) explain the current medical use of the ANA test.

Objectives (Part 2): Upon completion of this course, the participant will be able to: 1) enumerate the American College of Rheumatology classification criteria for rheumatoid arthritis; 2) describe the role of rheumatoid factor in rheumatic disease diagnosis; and 3) describe the origin of citrullinated proteins and the diagnostic utility of antibodies to them.

Preserving the Past for the Future



Disneyland October 21 – 24 2010

51 hours of Continuing Education to choose from!

WANTED: MONITORS for 2010 Convention

CAMLT members are needed to monitor CE programs at the CAMLT Convention, October 22-24 in Anaheim. If you volunteer your time and energy, you will be rewarded with a free workshop. If you are interested, send in your registration form with a notation of the workshop number(s) you would like to monitor. We'll get back to you to let you know if you have been selected. Note: monitor reimbursements are disbursed post-convention.

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Christine Darmanian
CAMLT Awards Chair
6291 E. Alta Ave.
Fresno, CA 93727-5629
Phone: 559.255.6291
cdarmani@comcast.net

**REQUEST FOR NOMINATIONS
FOR 2010-2011 STATE OFFICES
AND COMMITTEES**

Nominations are now being accepted for CAMLT State Officers and Committee Chairpersons. Don't delay – the Nominations Committee needs time to determine eligibility and to contact the prospective candidate. If you are interested in serving in a State office as a member of the Board of Directors, or in a State Committee Chairperson position, or know of someone who is a good candidate, submit your name, address, telephone number and email address to:

Rhonda Becker
CAMLT Nominations Chair
3740 Business Dr.
Sacramento, CA 95820
Phone: 916.734.1718
Rhonda.Becker@ucdmc.ucdavis.edu

The following positions are open:

President-Elect (1 year)
Secretary (1 year)
District II Consultant (2 years)
District IV Consultant (2 years)
District V Consultant (1 year, filling vacant position)
Finance Chairperson (2 years)
Judicial Committee (2 years) – 3 positions
Nominations Committee (1 year) – 5 positions (Districts I through V)

**ANNOUNCING CAMLT
EDUCATION AND
RESEARCH FOUNDATION
WINNERS – 2010!**

Winners of free continuing education scholarships (6.0 hours CE) are chosen from among attendees at CAMLT seminars and the convention.

Winter Seminar North:

#1: Enid Deibert
#2: Natalie Cherok-Fenner
Barbara Briscoe Award: Wanda Toy

Spring Seminar South:

#1: Hea-Jung Le
#2: Shirley May Van Rennes

Summer Seminar North:

#1: Judy Kitagawa
#2: Linda Bowser

Summer Seminar South:

#1: Truman Worsham
#2: Shamsi Hosseinpour

Congratulations to the E&R winners! You, too, may be a winner if you attend one of CAMLT's seminars or the convention – see you there!

***RECRUIT FOUR NEW MEMBERS,
GET A FREE MEMBERSHIP***

To encourage all CAMLT members to spread the word about the benefits of membership, CAMLT now offers an incentive proposal: Recruit four new members and your own membership renewal will be free. How's that for a good deal? CAMLT's ranks will increase and you will save money.

Here's how it works:

- When you recruit a new member, enter your name as recruiting member on the membership application. (Successful recruiters always follow through by helping the applicant fill out the form – we all know how those forms get lost on our desks, even when we really, truly mean to send them in.)
- The Executive Office staff will track these recruitments.
- The recruiter must be an Active Member.
- Keep track of the new members you bring to CAMLT. If there are four new members on your list within six months, your next membership renewal will be free.
- New members must not have been members for three years to count toward your free renewal. However, student members joining as active members when their student membership expires will count toward the total.

Note that this incentive is in addition to the \$15 certificates toward state-sponsored seminars currently given to the new member and the recruiting member.

**NOMINEES FOR CLS OF
THE YEAR AWARD
WANTED!**

Now is the time to submit nominations for the prestigious CLS of the Year Award. Contact:

Christine Darmanian
CAMLT Awards Chair
6291 E. Alta Ave.
Fresno, CA 93727-5629
Phone: 559.255.6291
cdarmani@comcast.net

or
the CAMLT Office,
office@camlt.org,
for details on qualifications and deadlines for submission.

The Ronny Peterson Research, Scholarship and Creative Activity Award

This scholarship was established in the memory of Ronny Peterson, past President of the California Association for Medical Laboratory Technology (CAMLT). Ronny was a staunch member of CAMLT and an avid supporter of furthering the profession. This scholarship will provide funding for persons wishing to implement projects or pursue personal educational opportunities that further the profession of Clinical Laboratory Science.

Amount funded: Maximum of \$1000

Submission date: Deadline extended to October 1, 2010

Criteria:

1. Applicant must be a CAMLT member.
2. Applicant must submit a one page justification for fund usage that includes:
 - a. proposed use of funds
 - b. description of how use of funds will further the profession
3. Examples of appropriate fund usage are:
 - a. pursuit of a related degree beyond that required for CLS licensing
 - b. attendance at professional workshops that provide the attendee with new or advanced work skills (not usual continuing education)
 - c. development of materials for use in student recruitment
 - d. development of materials for membership recruitment

Judging:

Criteria will be evaluated by the Board of Trustees, Education and Research Foundation, California Association for Medical Laboratory Technology, or appropriate designees. All criteria must be met. The annual award will go to the member whose request, in the opinion of the committee, best furthers the profession.

Submit information to:

Education and Research Foundation
CAMLT Executive Office
1895 Mowry Ave., Suite 112
Fremont, CA 94538-1766

The award recipient will be announced at the annual convention.

Distance Learning (Home Study)

CAMPYLOBACTER JEJUNI FOODBORNE GASTROENTERITIS

Course # DL-994

3.0 CE/Contact Hours

Level of Difficulty: Intermediate

James I. Mangels, MA, CLS, MT(ASCP)
Consultant
Microbiology Services
Santa Rosa, CA

ABSTRACT:

Foodborne infections are an important public health problem in the United States. In 2008, the Centers for Disease Control and Prevention (CDC) estimated that foodborne infections from viral and bacterial sources caused 76 million illnesses, 325,000 hospitalizations, and 5,000 deaths in the U.S. Most foodborne infections are self-limiting, and the symptoms are usually gone in 5-7 days. However, many foodborne infections can cause serious sequelae. One of the more commonly reported bacterial causes of foodborne infection in the United States and throughout the world is *Campylobacter jejuni*. In many industrialized nations, *Campylobacter jejuni* is the most frequently identified pathogen associated with acute diarrhea. Worldwide, the economic loss due to *C. jejuni* infection is likely to be in excess of US \$2 billion per year. Adding to the human and economic costs of *C. jejuni* are the chronic sequelae associated with this infection.

Campylobacter jejuni gastroenteritis occurs primarily in infants, elderly people, and patients with underlying disease. Anyone who has ingested the organism from contaminated food or water is at risk of acquiring the disease. Immunocompromised individuals are at higher risk of acquiring campylobacteriosis, and the infection is usually more severe in these individuals. Campylobacteriosis is usually a self-limited disease, and antimicrobial therapy is not generally indicated. Complications are rare; however, previous *C. jejuni* infection can result in serious sequelae, such as reactive arthritis, meningitis, recurrent colitis, acute cholecystitis, hemolytic uremic syndrome, pancreatitis, cystitis, and Guillain-Barré syndrome.

C. jejuni normally inhabits the intestinal tract of a wide range of animal hosts. *Campylobacter jejuni* gastroenteritis in humans is generally acquired through the ingestion of food—poultry, beef, pork, or unpasteurized milk and milk products, although infection can also be acquired through a contaminated water supply, causing large outbreaks. Undercooked chicken is the most common source of infection.

The gastroenteritis associated with *Campylobacter jejuni* ranges from mild disease to severe diarrheal disease. Most people who become ill with *C. jejuni* get diarrhea (often bloody diarrhea), cramping, abdominal pain, and fever within two to five days after exposure to the organism, with symptoms typically lasting one week. Some infected persons have no symptoms.

This Distance Learning Course will review the history of gastroenteritis due to *Campylobacter jejuni* and discuss where the organism is normally found, how the organism is spread, the clinical symptoms of the disease, how the organism is isolated and identified by the clinical laboratory, treatment of the disease, and steps people can take to reduce the risk of infection.

COURSE OBJECTIVES:

After completing this course the participant will be able to:

1. outline the history of *Campylobacter* gastroenteritis
2. discuss the incidence of *Campylobacter* infection in the U.S.
3. explain the pathogenicity factors of *Campylobacter*
4. outline the clinical features of *Campylobacter* gastroenteritis
5. explain how the organism is identified
6. state methods to prevent *Campylobacter* gastroenteritis
7. outline methods of treatment of *Campylobacter* gastroenteritis

HEMOLYTIC DISEASE OF THE NEWBORN

Course # DL-995

1.0 CE/Contact Hours

Level of Difficulty: Basic

Helen M. Sowers, M.A., CLS
Department of Biological Science (retired)
California State University East Bay

ABSTRACT:

In the past Hemolytic Disease of the Newborn (HDN) was a major cause of death and disability in Caucasian fetuses and newborn infants. The condition occurs when an infant has a RBC antigen, inherited from the father, that the mother lacks, and she produces IgG antibodies to this antigen. These antibodies in the mother cross the placenta and cause destruction of red blood cells in the fetus. The infant develops anemia *in utero* that may lead to hydrops fetalis (severe edema) and other problems. After birth the infant may develop jaundice due to accumulation of bilirubin from continued hemolysis of RBCs.

Formerly the most common cause of HDN was Rh (D) incompatibility. It wasn't until this blood group antigen was identified in 1940, and then associated with HDN in 1941, that the pathogenesis was described. By the late 1960s this led to the use of therapeutic antibodies to prevent sensitization of the Rh-negative mother by the infant's RBCs. Now all Rh-negative mothers at risk of becoming sensitized are given anti-Rh (D) antibodies during pregnancy and at the time of delivery.

At present the most common cause of HDN is ABO incompatibility, with Rh (D) next. Other blood groups are less frequent causes of HDN.

Laboratory testing plays a crucial role in the identification of at-risk pregnancies, the prophylaxis of HDN, the diagnosis of the disease, and the identification of the antibody causing the problem.

OBJECTIVES:

After completing this course the participant will be able to:

1. Summarize the history of Rh-Hemolytic Disease of the Newborn (HDN)
2. Outline the model of Rh-HDN
3. Explain the cause of ABO-HDN and contrast to Rh-HDN
4. State the racial differences in incidence of the Rh negative gene
5. Discuss the conditions that affect the sensitization of the mother to the Rh antigen.
6. Discuss the symptoms of HDN
7. Outline the treatment options for the fetus and newborn with HDN
8. List the tests for HDN done on the mother, fetus, and newborn

CAMLT is going green and no longer printing the text of Distance Learning courses in Newsline. To access the courses go to www.camlt.org, Continuing Education and choose Distance Learning Courses. You may download the course and quiz questions for your study then complete the course for credit by using the "On-line REGISTRATION, PAYMENT and QUIZ link." You may also contact the CAMLT office (510.792.4441) to order a hard copy of the course (pre-payment required).

DISTANCE LEARNING

(Home Study)

Course Registration Form

&

Answer Sheet

INSTRUCTIONS: Upon completion of one or more Distance Learning courses, answer the test questions using the answer sheet below. Copies of answer sheets are acceptable. Submit the following to CAMLT:

1. Signed Registration Form/Answer Sheet
2. Evaluation Form, and
3. Fee (member: \$12/CE unit
non-member: \$15/CE unit)

MAIL TO: CAMLT
1895 Mowry Avenue, Suite #112
Fremont, CA 94538-1766

Please Print Clearly

Name: _____

Home Address: _____

City: _____ State: ____ Zip: _____

Home Tel: (____) _____ -- _____ X _____

Work Tel: (____) _____ -- _____ X _____

Employed at: _____

CDPH License/Certificate # _____

METHOD OF PAYMENT:

() Member () Non-member

() Check Payable to: CAMLT

(Returned checks subject to a \$20 fee)

() VISA or () MasterCard (indicate card type)

Card #: _____ Exp. Date: _____

Signature: _____

Course Title: _____

Course Number: _____ - _____

SIGNATURE (REQUIRED FOR PROCESSING)

circle the one best answer

| | | | | |
|------|------|-------|-------|-------|
| 1. a | 7. a | 13. a | 19. a | 25. a |
| b | b | b | b | b |
| c | c | c | c | c |
| d | d | d | d | d |

| | | | | |
|------|------|-------|-------|-------|
| 2. a | 8. a | 14. a | 20. a | 26. a |
| b | b | b | b | b |
| c | c | c | c | c |
| d | d | d | d | d |

| | | | | |
|------|------|-------|-------|-------|
| 3. a | 9. a | 15. a | 21. a | 27. a |
| b | b | b | b | b |
| c | c | c | c | c |
| d | d | d | d | d |

| | | | | |
|------|-------|-------|-------|-------|
| 4. a | 10. a | 16. a | 22. a | 28. a |
| b | b | b | b | b |
| c | c | c | c | c |
| d | d | d | d | d |

| | | | | |
|------|-------|-------|-------|-------|
| 5. a | 11. a | 17. a | 23. a | 29. a |
| b | b | b | b | b |
| c | c | c | c | c |
| d | d | d | d | d |

| | | | | |
|------|-------|-------|-------|-------|
| 6. a | 12. a | 18. a | 24. a | 30. a |
| b | b | b | b | b |
| c | c | c | c | c |
| d | d | d | d | d |

Distance Learning Evaluation Form

This evaluation form **MUST BE RETURNED TO CAMLT** along with your review questions. Your comments help us to provide you with better continuing education materials in the home study format. We welcome and encourage any additional comments. Please respond to the following statements by circling the number that agrees with your assessment of the statement with "5" meaning you strongly agree, "4" meaning you agree, "3" meaning you have no opinion, "2" meaning you disagree and "1" meaning you strongly disagree.

1. Overall, I was satisfied with the quality of this course.
5 4 3 2 1

2. The objectives of this course were met.
5 4 3 2 1

3. Difficulty was consistent with the no. of CE hours.
5 4 3 2 1

4. I will use what I learned from this course.
5 4 3 2 1

5. It took me _____ hours to complete this course.

6. What did you like or dislike about this program?

CAMLT DISTANCE LEARNING COURSES

CAMLT is approved as a provider of continuing education programs in the clinical laboratory sciences by the California Department of Public Health as a CA CLS Accrediting Agency (#0021) and by the ASCLS P.A.C.E® Program (#519).

Permission to reprint any part of these articles, other than for CAMLT credit, must be obtained in writing from the CAMLT Executive Office.

| Course #/Title (PLACE A CHECK NEXT TO EACH COURSE ORDERED) | CE Units | Level of Difficulty |
|---|-----------------|----------------------------|
| <input type="checkbox"/> DL-905 - The Bug Everyone Has - Epstein-Barr Virus: A Case Study | 2.0 | Basic |
| <input type="checkbox"/> DL-906 - Ergonomics – An Intermediate Self-Study Package for Safety | 2.0 | Intermediate |
| <input type="checkbox"/> DL-909 - A Safety Plan for Laboratories | 1.0 | Basic |
| <input type="checkbox"/> DL-922 - Hematology Case Study: A Hypochromic, Microcytic Anemia | 1.0 | Basic |
| <input type="checkbox"/> DL-923 - Challenges in Diagnosing Parasitic Infections in California | 2.0 | Intermediate |
| <input type="checkbox"/> DL-946 - BNP - B-Type Natriuretic Peptide | 1.0 | Basic |
| <input type="checkbox"/> DL-950 - Smallpox | 2.0 | Basic |
| <input type="checkbox"/> DL-952 - Hepatitis C Course and Outcome | 1.0 | Basic |
| <input type="checkbox"/> DL-954 - Review of Blood Collection Equipment | 1.0 | Basic |
| <input type="checkbox"/> DL-956 - Patty Pancreas | 2.0 | Intermediate |
| <input type="checkbox"/> DL-957 - A Bacterial Carcinogen – <i>Helicobacter pylori</i> | 2.0 | Intermediate |
| <input type="checkbox"/> DL-958 - A Plague on US | 1.0 | Basic |
| <input type="checkbox"/> DL-962 - Ischemia-Modified Albumin (Newest Cardiac Marker) | 1.0 | Basic |
| <input type="checkbox"/> DL-963 - Patient Identification | 1.0 | Basic |
| <input type="checkbox"/> DL-965 - Infectious Disease: A Gender Bias | 1.0 | Basic |
| <input type="checkbox"/> DL-966 - Cystic Fibrosis and Microbial Infections | 2.0 | Intermediate |
| <input type="checkbox"/> DL-967 - Frenetic Flora and Freezing Frank (Thyroid Hormones and Thyroid Diseases) | 2.0 | Intermediate |
| <input type="checkbox"/> DL-968 - An Introduction to HIV, HIV Infection, and AIDS | 3.0 | Basic |
| <input type="checkbox"/> DL-969 - Erythropoietin and Blood Production | 1.0 | Basic |
| <input type="checkbox"/> DL-970 - HIV/AIDS Part II – Life and Times of the Human Immunodeficiency Virus | 3.0 | Intermediate |
| <input type="checkbox"/> DL-973 - Hemoglobin A1c Testing of Patients with Hemoglobinopathies | 1.0 | Basic |
| <input type="checkbox"/> DL-974 - Anaerobic Bacteriology for the Clinical Laboratory | 3.0 | Intermediate |
| <input type="checkbox"/> DL-975 - Megaloblastic Anemia | 1.0 | Intermediate |
| <input type="checkbox"/> DL-976 - Update on West Nile Virus | 1.0 | Intermediate |
| <input type="checkbox"/> DL-978 - An Overview of the Immune System, Part One: The Cells and Cell Surface Molecules | 3.0 | Basic |
| <input type="checkbox"/> DL-979 - Papillomaviruses and Cervical Cancer | 2.0 | Intermediate |
| <input type="checkbox"/> DL-980 - What You Always Wanted to Know About <i>E. coli</i> O157:H7 Infection | 3.0 | Intermediate |
| <input type="checkbox"/> DL-981 - Overview of the Immune System; Part II - <i>Generation and Evaluation of Immune Responses</i> | 3.0 | Intermediate |
| <input type="checkbox"/> DL-982 - Chlamydiae and Their Role in Human Disease | 2.0 | Intermediate |
| <input type="checkbox"/> DL-983 - Prion Diseases | 1.0 | Intermediate |
| <input type="checkbox"/> DL-984 - Cost Effective Clinical Microbiology | 3.0 | Intermediate |
| DL-985 - Hematology Case Studies: Platelets – available on website only | 1.0 | Intermediate |
| <input type="checkbox"/> DL-986 - <i>Candida</i> and its Role in Opportunistic Mycoses | 2.0 | Intermediate |
| <input type="checkbox"/> DL-987 - An Update on Autoimmune Diseases | 1.0 | Basic |
| <input type="checkbox"/> DL-988 – The Great Imposter | 2.0 | Intermediate |
| DL-989 – Neutrophilia – available on website only | 1.0 | Basic |
| <input type="checkbox"/> DL-990 – <i>CLOSTRIDIUM DIFFICILE</i> 027: The Recent Emergence of a New Strain | 3.0 | Intermediate |
| <input type="checkbox"/> DL-991 – MRSA – Its Consequences and Control | 2.0 | Intermediate |
| <input type="checkbox"/> DL-992 – Organ Specific Autoimmune Diseases | 1.0 | Intermediate |
| <input type="checkbox"/> DL-993 – Coccidioidomycosis (Valley Fever): A Reemerging Mycosis | 2.0 | Intermediate |
| <input type="checkbox"/> DL-994 – <i>Campylobacter jejuni</i> Foodborne Gastroenteritis | 3.0 | Intermediate |
| <input type="checkbox"/> DL-995 – Hemolytic Disease of the Newborn | 1.0 | Basic |

DISTANCE LEARNING PURCHASE PLAN/ORDER FORM

NON-MEMBER RATE: \$15 PER CEU; MEMBER RATE: \$12 PER CEU; OR NEW ACTIVE MEMBER PRICE OF:

WITH PAYMENT OF NEW ONE-YEAR ACTIVE MEMBERSHIP, SELECT 12 CE UNITS FOR \$60 (TOTAL: \$180) OR 6 CE UNITS FOR \$40 (TOTAL: \$160)

PURCHASE PLAN: (CHECK ONE): • 12 UNITS – NEW ACTIVE • 6 UNITS – NEW ACTIVE • MEMBER • NON-MEMBER

NAME: (PLEASE PRINT) _____

ADDRESS: _____

CITY: _____ STATE: _____ ZIP: _____

TELEPHONE: (HOME) _____ (WORK) _____

EMAIL: _____ CA DPH LICENSE/CERTIFICATE #: _____

METHOD OF PAYMENT: CHECK VISA MASTERCARD

CARD #: _____ EXPIRATION DATE: _____

SIGNATURE: (REQUIRED OF ALL REGISTRANTS) _____

NOTE: IF PURCHASING NEW ACTIVE MEMBERSHIP/PURCHASE PLAN, INCLUDE MEMBERSHIP APPLICATION, FORM, AND PAYMENT IN ONE ENVELOPE



California Association for Medical Laboratory Technology

MEMBERSHIP APPLICATION

Personal Information

Name _____
 Address _____
 City _____ State _____ Zip _____
 DHS License/ Certificate # _____
 Home Phone _____
 E-mail _____

Employment Information

Employer _____
 Address _____
 City _____ State _____ Zip _____
 Work Phone _____
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CAMLMT asks you to contribute to one or both of these two worthwhile entities

LAB-PAC

The CAMLMT Political Action Committee helps your association advocate on behalf of you and your profession. Help support quality clinical laboratory medicine in the California legislative arena.

*Contributions are NOT tax deductible
 You must be a U.S. citizen to donate.*

Education & Research Foundation

Your tax deductible contribution supports scholarship programs, outreach efforts and students pursuing careers in the clinical laboratory sciences. Please enclose a separate check when contributing to E & R Foundation.

Membership Categories

Active - \$120 annually
 An individual who 1) Holds a license or certification in a clinical laboratory profession issued by the California Department of Public Health; or 2) Holds a baccalaureate degree from an accredited college or university and is eligible to sit for the CDPH license examination; or 3) Holds a Masters or Doctorate degree in science, education or administration and is actively employed in clinical laboratory science.

Collaborative - \$65 annually
 An optional special non-voting, non office holding membership category open to licensed Medical Laboratory Technicians or Certified Phlebotomy Technicians, who desire to support the association. All other membership benefits are afforded. These members are also eligible to apply for active membership if they desire to vote and/or hold office in the association

Associate - \$75 annually
 An individual who has an interest in the field of clinical laboratory science and /or supporting the purposes or goals of CAMLMT, but is not otherwise eligible for membership

Student - \$10 annually
 An individual who possesses a valid training license from Laboratory Field Services (CDPH) and is engaged as a trainee or a full time student at an accredited college or university in a program that leads to eligibility for the training license

Lifetime - \$1250 one time fee
 Meets Active member requirements and submits the one time application fee

20/20 Option - \$20 annually
 An additional \$20 payment at time of renewal entitles the member a 20% discount on CAMLMT state sponsored C.E. fees for the year (not applicable to Distance Learning)

| | |
|--|----------|
| Membership Dues | \$ _____ |
| 20/20 Option | \$ _____ |
| LAB-PAC Contribution | \$ _____ |
| E & R Foundation Donation (separate check - tax deductible) | \$ _____ |
| Total Payment Amount | \$ _____ |

Applicants are considered for membership in the class which meets his /her maximum qualifications.

I declare that in making application for membership, I have met the qualifications listed for the category to which I am applying.

Applicant Signature _____
 Recruiter (if known) _____

Checks payable to CAMLMT and/or E & R as appropriate
 OR

Credit Card Payment: VISA Master Card

Card # _____ Exp. _____

Date _____ Authorized Signature _____

Mail to: CAMLMT, 1895 Mowry Ave. Suite 112, Fremont, CA 94538
 Fax to: 510-792-3045 (Voice Phone 510-792-4441)



Are you moving? Don't miss future issues. Notify the CAMLT Executive Office of your new address and telephone number.

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CONTINUING EDUCATION CALENDAR

Save These Dates - Program Planning in Progress!

- October 22-24, 2010 CAMLT's 71st Annual Meeting, Exhibits & CE Workshops
Preserving the Past for the Future
Disney Paradise Pier Hotel, Anaheim
- January or February, 2011 San Luis Obispo Chapter, CAMLT - date to be determined
- February 26-27, 2010 Tulare/Kings Chapter CAMLT Seminar
- April 2, 2011 Eastland and Foothill Chapters CAMLT Spring Symposium
- April, 2011 East Bay Chapter CAMLT Seminar - date to be determined
- October 6-9, 2011 CAMLT's 72nd Annual Meeting, Exhibits & CE Workshops
Hyatt Regency Sacramento, CA

WANT MORE INFORMATION? CONTACT:

TEL: 510/792-4441

FAX: 510/792-3045

WEBSITE: WWW.CAMLT.ORG

CAMLT EXECUTIVE OFFICE
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